

# Knitted Outerwear Times

the official publication of the  
national knitted outerwear association  
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No. 11

## 1959 World-Wide Wool Activity Up Appreciably

WASHINGTON, D. C.—World trade in raw wool and wool products increased substantially in 1959 in contrast to the severe declines in 1958, the Agricultural Marketing Service, U. S. Department of Agriculture, reported in its periodic analysis of the wool situation issued last week.

All segments of the wool industry gained significantly in 1959 the AMS stated. Although most prices in world markets have eased in recent weeks they have been relatively firm since early last fall as a result of the

good demand for the world record clip, the report noted. Prices are now considerably above a year ago when they were at a post-Korean low, it was pointed out.

With production and consumption approximately in balance the AMS says the outlook for the next few-months is for continued good demand at about current prices.

The 1959 domestic shorn and pulled wool production totaled 291.7 million pounds, grease basis, or 139.0 million pounds, clean content, seven percent more than 1958 and the highest since 1947. This is nine percent above the average of 1948-57.

Shorn wool production was 257.2 million pounds, grease basis, almost 7 percent more than the revised data for 1958. This increase in production was a result of an increase in the

## Cleveland District Elects Frisch Head

CLEVELAND, Ohio—Marc Frisch, vice president of Frisch Knitting Mills, has been elected to succeed Alex L. Siegel, Lampl Fashions, as president of the Knitted Outerwear Manufacturers Association, Cleveland District.

The Cleveland group will meet on March 22, in this city. Guest speakers will be James F. Nields, president of Ware Knitters and of the National Knitted Outerwear Association, and Sidney S. Korzenik, NKOA executive director and counsel.

Newly-elected vice presidents of the Cleveland District are Mr. Siegel; Alan Loveman, L.

(Continued on Page 51)

number of sheep and lambs shorn and a heavier average fleece weight.

Reflecting increased U. S. mill consumption in 1959, imports of raw wool also were up substantially. Increased imports began in the fall of 1958 and continued relatively heavy into mid-1959 before they eased downward. Increased imports in late 1958 and 1959 paralleled an increase in wool consumption and a decrease in world wool prices. Since mid-1959 monthly imports have been down from early 1959 highs, as inventories—especially apparel wool stocks—were held at low levels.

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## DuPont To Announce Name For Fiber 21

A trade mark to identify Orlon 21, DuPont's new reversible crimp acrylic fiber, will be announced at a knitters conference to be held next Wednesday at 4 P.M. in the North Ballroom of the Hotel Astor. It is understood that the DuPont Company has invited about 70 brand name producers of sweaters to the parley.

Program details were not disclosed at presstime. It is understood that in addition to the announcement of the new trade name for Orlon 21, DuPont speakers will discuss technical features of the permanently crimped fiber and outline the advertising program planned in support of the new fiber as well as sweaters of Type 42 Orlon and Orlon Cantrecre. A fashion show will be held and the conference will conclude with a cocktail party.

## Ask Extension Of Commercial Rent Controls

ALBANY, N. Y.—The Temporary State Commission on Rents was asked to extend the New York Commercial and Business Rent Law in a brief filed by Sidney S. Korzenik, executive director and counsel of the National Knitted Outerwear Association. His brief was submitted on behalf of the 21 Association members of the Apparel Industries Joint Rent Committee.

"The difficulties which required a continuation of present rent controls a year ago have not abated in the garment areas," Mr. Korzenik pointed out in his statement which was addressed to Joseph F. Carlino, chairman of the State Rent body.

"Those considerations plead just as persuasively for renewal today as they did then."

"One important development has occurred since then. A most important body of new evidence has appeared which gives the strongest support to our position here. We refer to the recent volume published a few months ago by the Harvard University Press for the regional Plan Association, entitled "Made In New York." It consists of case study of garment manufacturing and the forces causing it to migrate out of New York. It shows that if present forces continue in operation, the women's and children's apparel industry will continue to leave the city and dis-

(Continued on Page 51)

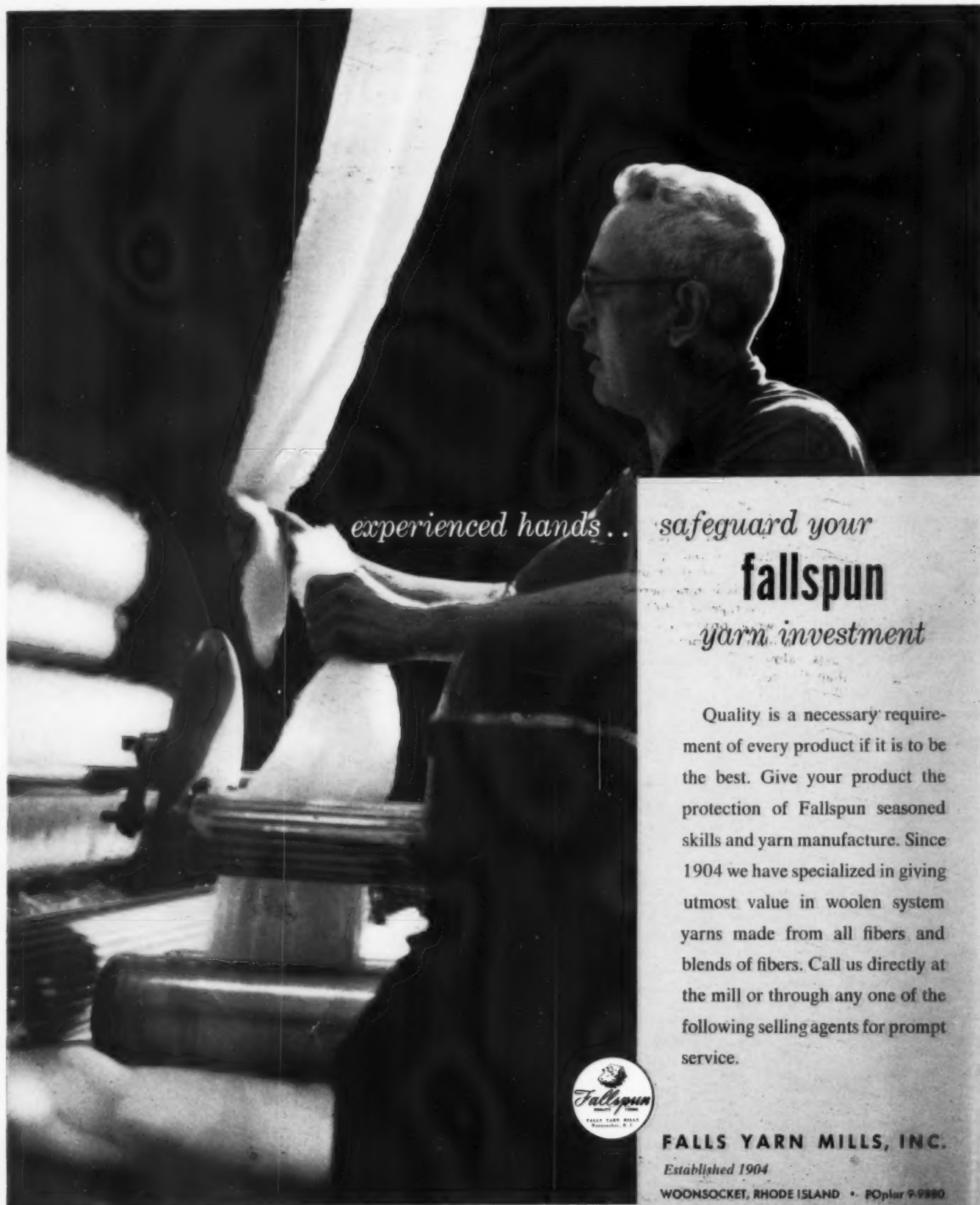
## Negotiations Scheduled By Knitwear Employers

Members of the Knitwear Employers Association met on March 3 at the Hotel New Yorker to plan forthcoming negotiations with District 65, it was announced by Harold Korzenik, counsel to the organization.

The industry contract presently expires on April 30, 1960, and the forthcoming negotiations point toward a contract beginning May 1. The demands of the employers were promulgated in anticipation of the first meeting, which had been scheduled for March 10.

The association represents knitwear distributors in contractual relations with that union covering their shipping clerks and office employees.


## 42nd Annual NKOA Banquet, May 5, Waldorf Astoria



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## Napped And Sheared Knits

# Heather Effects With Orlon And Wool

By CHARLES REICHMAN, Editor

NAPPED and sheared heather effects similar to those presently being achieved with regular Acrilan and Acrilan 16 are being obtained by some knitters with an Orlon and wool blend yarn. Actually, the yarn is the same as the one which yardgoods knitters have been using for a number of years. It consists of 80 percent Orlon, about two-thirds of which is high shrinkage fiber, and 20 percent wool, spun on the worsted system into a single ply yarn. As such it lends itself well to knitting on interlock sweater-strip machinery, the units currently favored by most knitters for knitting napped and sheared sweaters.

The contrast heather color effects are obtained by dyeing sweater-strips of the Orlon and wool yarn in a one-bath operation, using an acid dye to color the wool and a basic dye for the Orlon. Three-color heather effects can be achieved by changing the DuPont acrylic component to 20 percent solution-dyed black and 60 percent Orlon in the natural. The wool proportion, of course remains unchanged.

### Also One-Bath Method

Dyeing of this three-way mixture is also done in a one-bath basis. However, neither the acid dye used for coloring the wool nor the basic dye for the Orlon has any affect upon the solution-dyed black Orlon.

One of the advantages noted by knitters for this acrylic and wool fiber combination is that the presence of the wool tends to reduce, if not completely eliminate, the glazing which is apparent in most napped and sheared sweaters of 100 percent Orlon or of regular Acrilan and Acrilan 16 mixtures.

Another attribute of the Orlon and wool combination which sweater-makers cite is that the protein fiber tends to impart to the napped and sheared garment a somewhat fuller body and beefier handle than is normally obtained with an all-acrylic fiber yarn.

### Same Knitting Procedure

The technology for knitting napped and sheared sweater-strips of Orlon and wool is not much different from the procedure for knitting plush knit sweater-tubes of 100 percent Orlon or of regular Acrilan and

and the wool another for a sharp contrast cross color.

If the wool only is dyed the heather effect resulting is usually in the light shade range. The second technique of dyeing the Orlon and reserving the wool produces dark heather effects. The third method of dyeing can give either light or dark heather effects, depending upon color combinations employed.

### Conventional Method

No change in the conventional method of napping and shearing is required for handling sweater-strips knitted of Orlon and wool. The same procedures that are used for 100 percent Orlon are generally followed.

In both napping and shearing, a minimum of two passes through the equipment is required to produce an acceptable plush surface. The presence of the wool in the fabric tends, of course, to aid in the development of this texture; however, as in the case of sweater-strips knitted of all-acrylic fiber yarns, the quality of the knitting, expressed in relative fabric compactness, will in the final analysis govern the number of times the continuous lengths of sweater-strips will have to be passed through the nappers and shears.

In getting heather effects, knitters actually have the choice of three different routes:

- Dyeing the wool and leaving the Orlon-in-the-grey untouched.
- Dyeing the Orlon and reserving the wool.
- Dyeing the Orlon one color

## EVALUATE ANTRON IN TEXTURED KNITS

ANTRON, DuPont's new nylon filament with a trilobal cross section, is currently being evaluated for texturizing purposes, it was learned in the market this week. Among the filament yarn modification procedures on which it is being tried out is the Bancroft (Ban-Lon) crimping method as well as the various twisting and untwisting systems such as Helanca, Superloft, Fluflo and Saaba.

Some sweaters have already been knitted up of textured Antron and the initial reaction is said to be favorable. The sweaters have a somewhat silkier handle and greater bulk and luster than sweaters knitted of conventional DuPont nylon. This is attributed largely to the fiber's unique cross section.

The sweaters too are said to have somewhat less pickiness than regular filament nylon garments. The reason for this, how-

ever, has not been determined as yet.

It is expected also that somewhat less pilling, particularly under the arms, will result with textured Antron than with textured regular nylon.

Sweaters made of textured Antron filament are knitted, dyed and finished in the same manner as regular textured nylon. Antron has an affinity for the same class of dyestuffs as regular nylon. It sells at a 10 cents per pound premium over regular nylon.



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## Knitting Techniques

# Manufacture Of Bulky Sweaters On Circular Links Units

By J. B. LANCASHIRE  
Chartered Textile Technologist

CIRCULAR links and links machines offer special facilities for the knitting of bulky knit sweaters, not only because of the available scope for patterning in stitch and color but also by reason of the fact that arrangements can be made to produce a firm welt in combination with all kinds of broad and fancy rib ends. Independently of the subsequent distribution of the knitting needles, these needles can be disposed in top and bottom cylinders in 1 X 1 formation for the first course of the welt and this applies whether or not a full complement of needles is used.

An important aspect of bulky knitting is the choice of machine gauge and in this connection the usefulness of a machine is greatly increased if it can be readily adapted to knit in half gauge as well as in full gauge. Unless both needles and sliders are to be replaced, involving the fitting of new dividing cams, a necessary condition for dual gauge knitting is that the hooks of the needles have sufficient strength and are large enough to

deal adequately with the coarser counts of yarn which will normally be employed when the needle spacing is doubled. On at least one modern make of double cylinder links and links machine this condition is satisfied when cylinders are cut with five and 6½ tricks per inch but not when they have eight or more tricks per inch. Replacement of stitch cams in the bottom cylinder is likely to be necessary in all cases and, in order to derive the greatest possible benefit from the half gauge setting, the verge bits in the cylinders should extend to a greater depth than normal.

Despite the use of coarser counts of yarn in half gauge

knitting, there is likely to be a substantial reduction in the tubular width of fabric obtainable from any links and links machine when it is working in this way. On machines of large diameter this will influence the number of garment parts that can be cut from the tubular width and modified pattern layouts may be found to be necessary if excessive waste is to be avoided.

With knit-to-fit machines, on the other hand, especially those having needle cylinders only 16 inches in diameter, there is a big risk that their use may be restricted to the production of garments of extra small size. Machines with 18-inch needle cylinders give better results but the new six feed British-built Wildt-Bentley model SPJ with 22-inch cylinders is much more suitable in this connection.

Other conditions being equal, the bulky knit attribute is more fully developed when multiple ends of yarn are fed to the

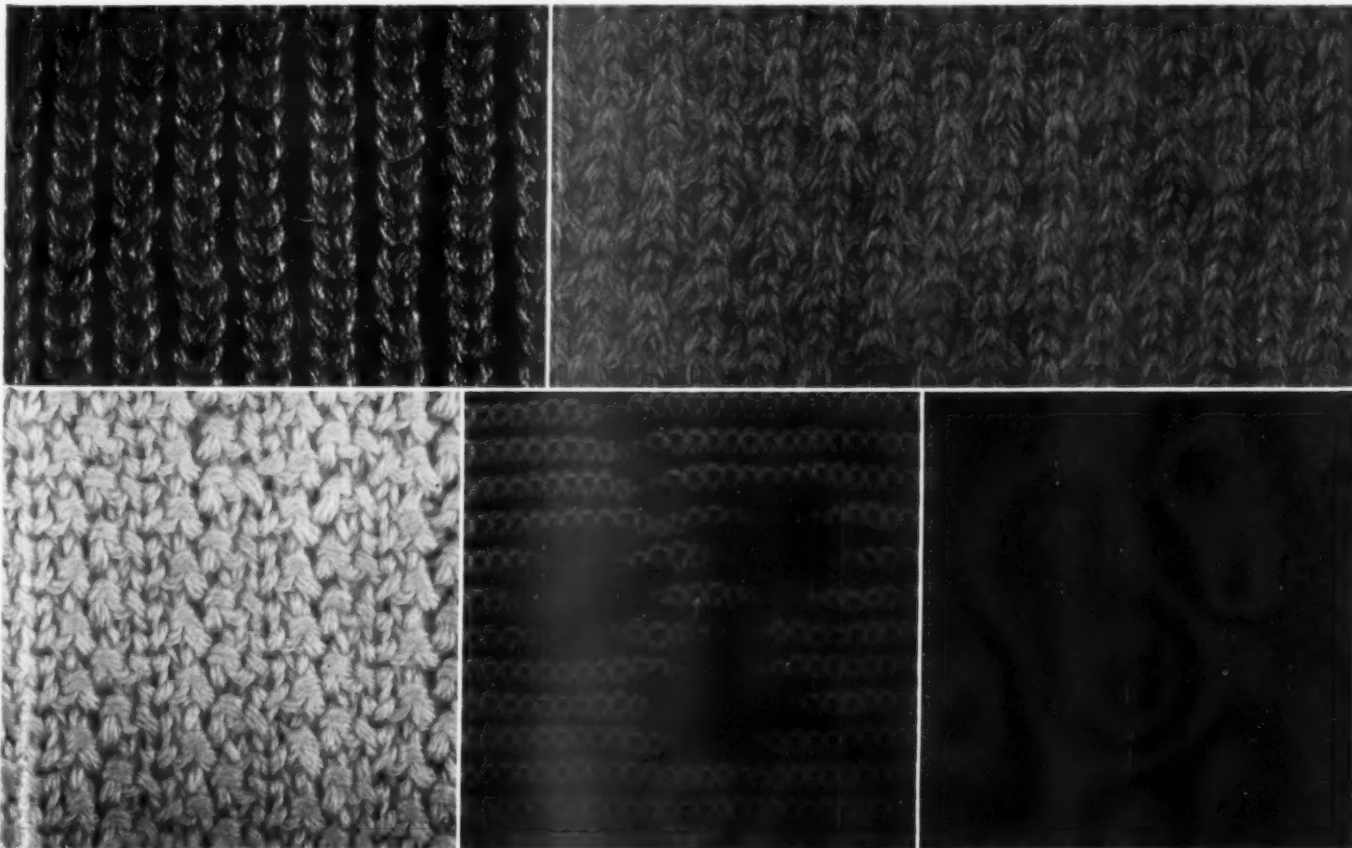
needles together than when ends are used singly. Bearing in mind the advantage to the manufacturer of stocking as few different yarns as possible, it is preferable to double-up ends for half gauge knitting than to purchase special counts expressly for the purpose. Accommodation for more yarn packages is a necessary corollary to the knitting of more than one end at once at each feeder and in this connection there is also the incidental advantage of a large bobbin stand that it can be used for pigtail tie-up magazine supply when its full capacity is not otherwise utilized.

The range of units of design that can be produced on a modern circular links and links machine include the undermentioned.

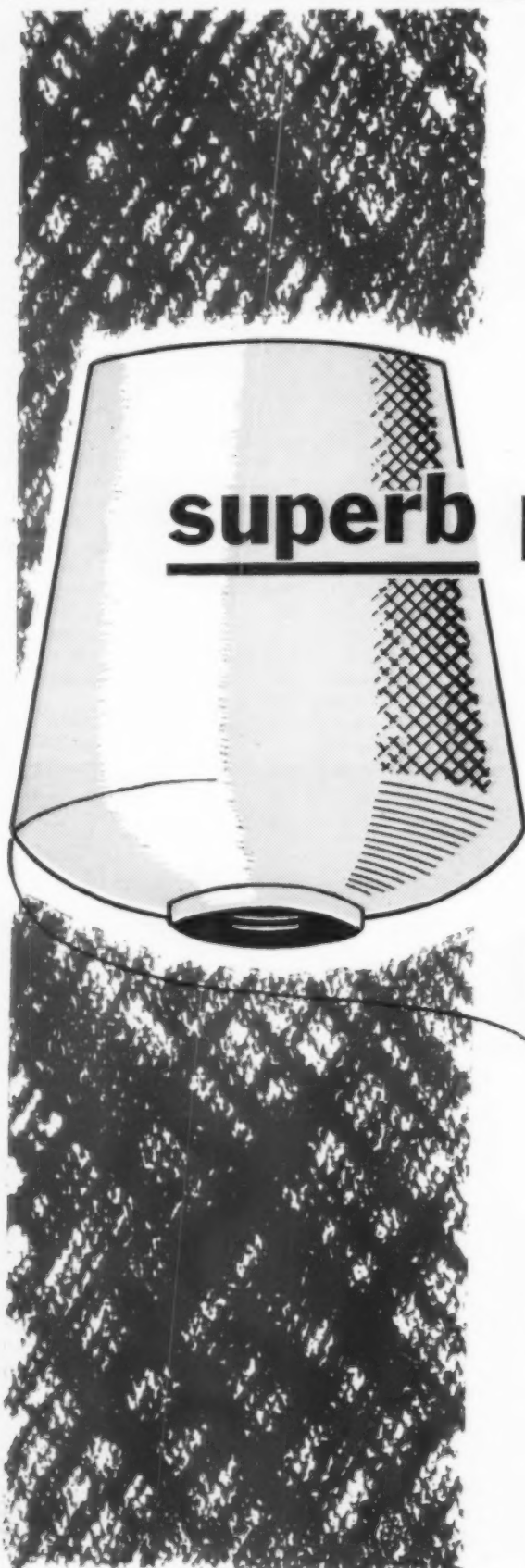
(a) A plain loop knitted by a double headed needle when the needle is engaged with its bottom slider.

(b) A purl loop knitted by

(Continued on Page 7)



Top row, left to right: Figure 2, Figure 3; bottom row: Figure 4, Figure 1, Figure 5.



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a double headed needle when the needle is engaged with its top slider.

(c) A long tuck loop made by tucking in the hook in the bottom cylinder.

(d) A short tuck loop made by tucking on the latch in the top cylinder.

(e) A missed loop made when a needle in the bottom cylinder holds its old loop without receiving new yarn.

(f) A "float" caused by leaving two or more adjoining cylinder tricks without needles.

### Varying Combinations

These various units or design can be combined in many different ways to make, among others, links and links designs, tuck rib and tuck purl effects, Fair Isle patterns and held stitch structures. It is also possible to add to the variety of textures by using different kinds of colors of yarns at the several feeds and by changing these yarns at intervals of courses, as desired.

In the form of 1 X 1 purl knitting, fabric has greater bulkiness than that possessed by plain fabric made from the same yarn at a corresponding stitch length, and the fact that circular purl machines can make all kinds of links and links textures gives them scope for bulky knitting which is not available on other types of circular machines.

The normal machine setting for links and links knitting is with top and bottom stitch cams drawing loops of equal length, but it is possible to increase the bulkiness of fabrics by drawing extra long loops in the top cylinder, dimensional stability being maintained by making all stitches in the bottom cylinder at every second course. There is no limit to the number of purl stitches that can be made at any patterning course and these purl stitches can be knitted alongside one another or otherwise, as desired. Full round stitches are formed in the top cylinder and at the points where these stitches are intermeshed with the plain stitches of the previous course the surface of the fabric is raised above its normal level.

### Produced Selectively

Fig. 1 illustrates a fabric of this kind in which the purl stitches are produced selectively in two colors to make a floral design which, by means of stripping changes, is developed

alternately in white and red on a blue ground. The knitting cycle repeats on four courses, using the ground yarn for the first and second and the fancy yarn (white or red, as the case may be) for the third and fourth. All the needles are assembled in the bottom cylinder to knit plain stitches at the first and third feeds and are selectively distributed between top and bottom cylinders to knit a combination of purl and plain stitches at the second and fourth feeds. The distribution at the fourth feed is the exact reverse of that at the second feed.

In addition to the scope that is offered by circular links and links machines for producing exclusive fabrics such as that shown in Fig. 1, they can make all kinds of rib fabrics, including tuck ribs such as half-cardigan. Fig. 2 illustrates half-cardigan fabric knitted in half gauge on a five cut machine from ends of 2/16s worsted yarn, four ends being supplied to the needle together at every feed. Tucking is done in the hook on the bottom cylinder, the needles drawing long tuck loops to impart maximum covering power combined with softness of hand and a good elastic property.

### Loftiness Of Hand

The best medium for promoting loftiness of hand in fabrics made on circular links and links machines, as on other types of weft-knitting machinery, is the tuck stitch. Collective tucking in the top cylinder can serve a useful purpose by enabling needles to tuck immediately after they have been transferred but, other conditions being equal, bulkier knitting is obtainable when tucking takes place in the hook in the bottom cylinder.

Apart from the fact that it can be done selectively, tucking in the hook has another important advantage in that it allows several tuck loops to be accumulated in one and the same mesh. Accumulation of tuck loops is a feature of the fabric shown in Fig. 3.

This fabric was produced in half gauge on a 6½ cut machine using two ends of 4/16s worsted yarn at each feed. Like the half-cardigan rib fabric illustrated in Fig. 2, it is also based on a fixed 1 X 1 distribution of needles as between top and bottom cylinders, the needles in the top cylinder knitting at every

feeder to make the face side. The knitting cycle repeats on eight courses, the needles in the bottom cylinder all making cleared loops at the first and fifth.

At courses 2, 3 and 4, tucking takes place on odd needles in the bottom cylinder and knitting takes place on even needles; at course 6, 7 and 8, tucking takes place on even needles and knitting takes place on odd needles.

### Bulky Links-Links

Fig. 4 portrays a link-links bulky knit fabric comprising plain, purl and tuck loops as indicated below. Cleared loops made by needles engaged with bottom sliders are denoted by the symbol O, tuck loops made in the hooks by needles engaged with bottom sliders by the symbol X, and cleared loops made by needles engaged with top sliders by the symbol O. The face stitches are knitted in the top cylinder.

X	X	•	•
X	X	O	O
X	•	•	X
X	O	O	X

This is a four feed knitting cycle where selections are made at the first and third feeds to distribute the needles between top and bottom cylinders to knit purl loops and plain loops respectively.

At the second and fourth feeds the cams are set for knitting in the top cylinder and tucking (in the hook) in the bottom cylinder.

O	O	X	X	O	O	X	X
X	O	X	X	X	O	X	X
X	O	O	X	X	O	O	X
O	O	O	X	O	O	O	X

### Knitting Machine Show To Be Held October 1961

MANCHESTER, England—The 1961 International Knitting Machinery and Accessories Exhibition will be held from October 11 through 21, 1961, at the Belle Vue Exhibition Halls, here. The show was pre-

viously held at the Granby Halls, Leicester, England. The change in location was necessary because of the large number of knitting and allied machine builders who want to exhibit.

Fifty percent of the exhibitors are from outside the United Kingdom.

O	•	•	O
O	O	X	X
O	O	•	•
O	X	X	O

This is also a four feed knitting cycle but in this case transferring takes place as the needles approach the second and fourth feeds.

The top stitch cams at the second and fourth feeds are set in an extra low position so that the needles that are engaged with top sliders at these feeds tuck on the latch.

### Floating Threads

Fig. 5 illustrates a bulky-knit fabric that is distinguished by floating threads which join each group of eight wales with corresponding groups on either side.

The needles that knit one group of wales are separated by four empty tricks from the needles that knit adjacent groups.

The links-links knitting action of each group of needles comprises the formation of purl and plain loops as represented below. There is a redistribution of needles between top and bottom sliders prior to knitting at every feed.

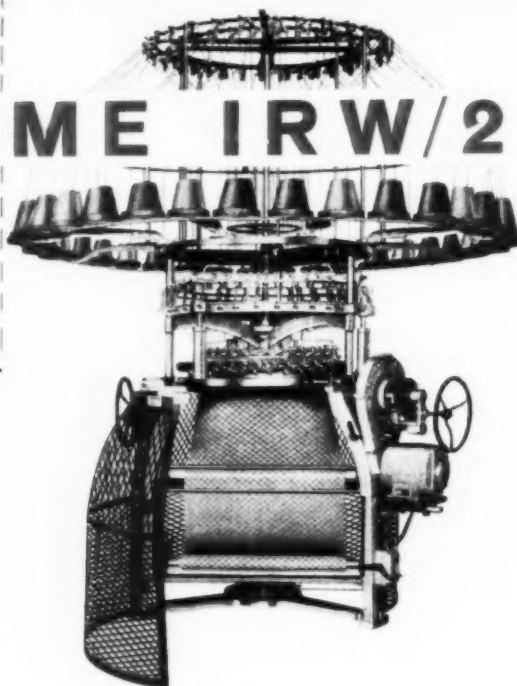


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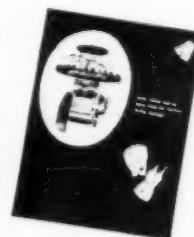
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## Knitting Principles

# Predictory Stitch Count, Yield, Output Of Patterned Fabric

By THEODORE HIRSCHHORN  
Kenwood Knitting Mills

THE IMPORTANCE of being able to predict and know in advance certain technical data on stitch count, measurement, yield, production and, generally, the behavior and reaction of knitted fabrics is apparent. The designer should be able to predetermine what stitch count should be used for the pattern he has designed. The plant manager must know beforehand what yield he will get from a certain pattern and what hourly production he can expect.

It is true that knitted goods of different structures react in different ways. But it is also true that there exist some rules, according to which the fabric will always give the same results, if knitted and treated under the same conditions. Discovering and applying these rules will undoubtedly help us to achieve better stability and uniformity.

Methods exist for calculating the data for plain jersey fabrics. But little work has been attempted in examining the frequently met problem of achieving uniformity in tightness and yield on patterned fabrics.

This study has been made on the basis of a high-standard quality jersey fabric knitted by Kenwood Knitting Mills, Babylon, N. Y., on Supreme machines 26 inches in diameter with 1500 needles. The basic stitch count for plain jersey, using 16/1 cotton yarn, is 32½ stitches (or courses) per inch; the tubular width is 33 inches (which equals 22.72 wales per inch); and the cloth has a yield of 1.70 (tubular) square yards per pound.

However, if we should attempt to work a pattern with part of the needles raised to knitting position (hereafter called "Knits") and another part left down in welting position (hereafter called "Welts") or raised to tucking position (hereafter called "Tucks"), the stitch count would not be 32½, because the Knits "rob" yarn from the Welts and become elongated. A higher percentage of Welts, in relation to the Knits, increases the length of the Knit stitches and decreases the stitch count per inch. The decrease is in a linear function, but it is not in a direct proportion to the decrease in Knits.

Any calculation for patterned fabrics must be based on the percentage of Knits, Welts and Tucks in one pattern repeat. This can be easily determined either from the sketch on the graph paper or from the wheel reading.

If we would leave the stitch cam setting in the same position as for working plain jersey, the stitch count on a pattern in Knit-Welt construction would indeed not be 32½ stitches per inch. But the fabric still would be extremely tight and heavy with a considerably lower yield. In order to achieve the required standard quality we have to lower the stitch-cams and thereby loosen the stitch.

A stitch count of 24 percent surface stitches per inch was considered as standard quality for any pattern with 50 percent Knits and 50 percent Welts. This fabric has a yield of 1.55 (tubular) square yards per pound. Surface stitch is the average amount of courses per inch. It could involve either 24 stitches of 1/24th of an inch in length, or some stitches of 1/32nd of an inch in length or less, with the remainder of more than 1/24th of an inch in length.

Since there are patterns with more than 50 percent Knits (i.e. patterns without being strictly "positive" and "negative" or with some jersey courses in one pattern repeat), or less than 50 percent Knits (in 3- or 4-color patterns), the surface stitch and the yield of these patterns have to be calculated. We find the value of Knits and Welts with an equation which is based on our foregoing information:

$$\text{Given: } 100 K = 32.5 \quad \text{and} \quad 50 K + 50 W = 24$$

$$\text{Then: } 50 W = 24 - 50 K = 24 - (50 \times 32.5) = 24 - 16.25 = 7.75$$

100

$$\text{If: } 50 W = 7.75, \text{ then } 1 W = \frac{7.75}{50} = 0.155$$

$$\text{And: } 1 K = \frac{32.5}{100} = 0.325$$

Where: K = Knits; W = Welts.

Applying these values to the following formula we can calculate how many surface stitches per inch we need for any pattern and with any ratio of Knits and Welts:

$$(\#1) (K\% \times 0.325) + (W\% \times 0.155) = \text{Surface stitches per inch.}$$

Where: K% = The percentage of Knits in any given pattern.  
W% = The percentage of Welts in any given pattern.

It should be noted that these figures are to be applied only where a basic stitch count of 32½ stitches per inch on plain jersey is desired. For any other quality (higher or lower yield) or by working with any other yarn count than 16/1 an applicable formula would be:

$$(\#1a) \frac{(K\% \times \text{jersey stitch count})}{100} + \frac{(W\% \times \text{jersey stitch count})}{210} = \text{Surface stitch per inch.}$$

Where no basic stitch count is known, the figures in all formulas can be reconstructed on the basis of any known or desired factor, i.e. yarn count, yield, stitch count in any pattern, etc.

Two examples show how to use the above formula (#1):

First example: A pattern has 50 percent Knits and 50 percent Welts. The calculation, required to find surface stitch, will be:

$$(50 \times 0.325) + (50 \times 0.155) = 24$$

The pattern has 24 surface stitches per inch.

Another example: A pattern has 75 percent Knits and 25 percent Welts:

$$(75 \times 0.325) + (25 \times 0.155) = 28.25$$

The pattern should have 28.25 surface stitches per inch.

A great many patterns form not only Knits and Welts but "Tie-ins" (which technically are tuck stitches) as well. There is no doubt that the Tucks greatly influence the knit structure. They do so basically in three ways:

1. They tend to widen the cloth and we have fewer wales per inch; the cloth would become looser.

2. By stretching the wales widthwise the courses will automatically get shorter and the cloth would become tighter. These two factors neutralize each other and the same tightness (cover factor) would be restored, because the number of stitches on a square basis (courses x wales) remains the same.

3. However, the Tucks also increase the thickness of the cloth which in turn makes the cloth heavier and decreases the yield. In order to regain the required yield we must restore the stitch count, so that we achieve the same surface stitch, disregarding the width, as if the pattern were without Tie-ins. It has been found that the loss on wale-density almost completely neutralizes both the gain on course-density and the gain on cloth-thickness.

Theoretically, the formula for calculating the surface stitch, considering the percentage of Tie-ins, would be:

$$(\#2) \frac{[(K\% \times 0.325) + (W\% \times 0.155)] \times (100 + T\%) \times 33}{100} = \text{Surface stitch per inch}$$

Width

Where: T% = Percentage of Tie-ins.  
33 = Width of plain jersey.  
Width = Actual width of fabric.

The percentage of Tie-ins is in an equal ratio to the width-  
(Continued on Page 13)

# QUEENS MACHINES & TORRINGTON NEEDLES

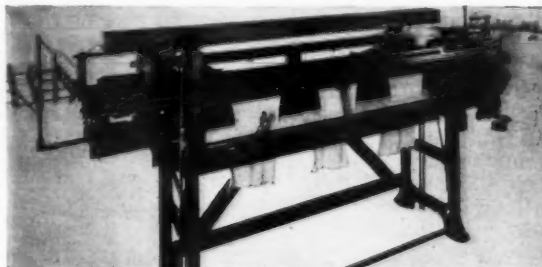
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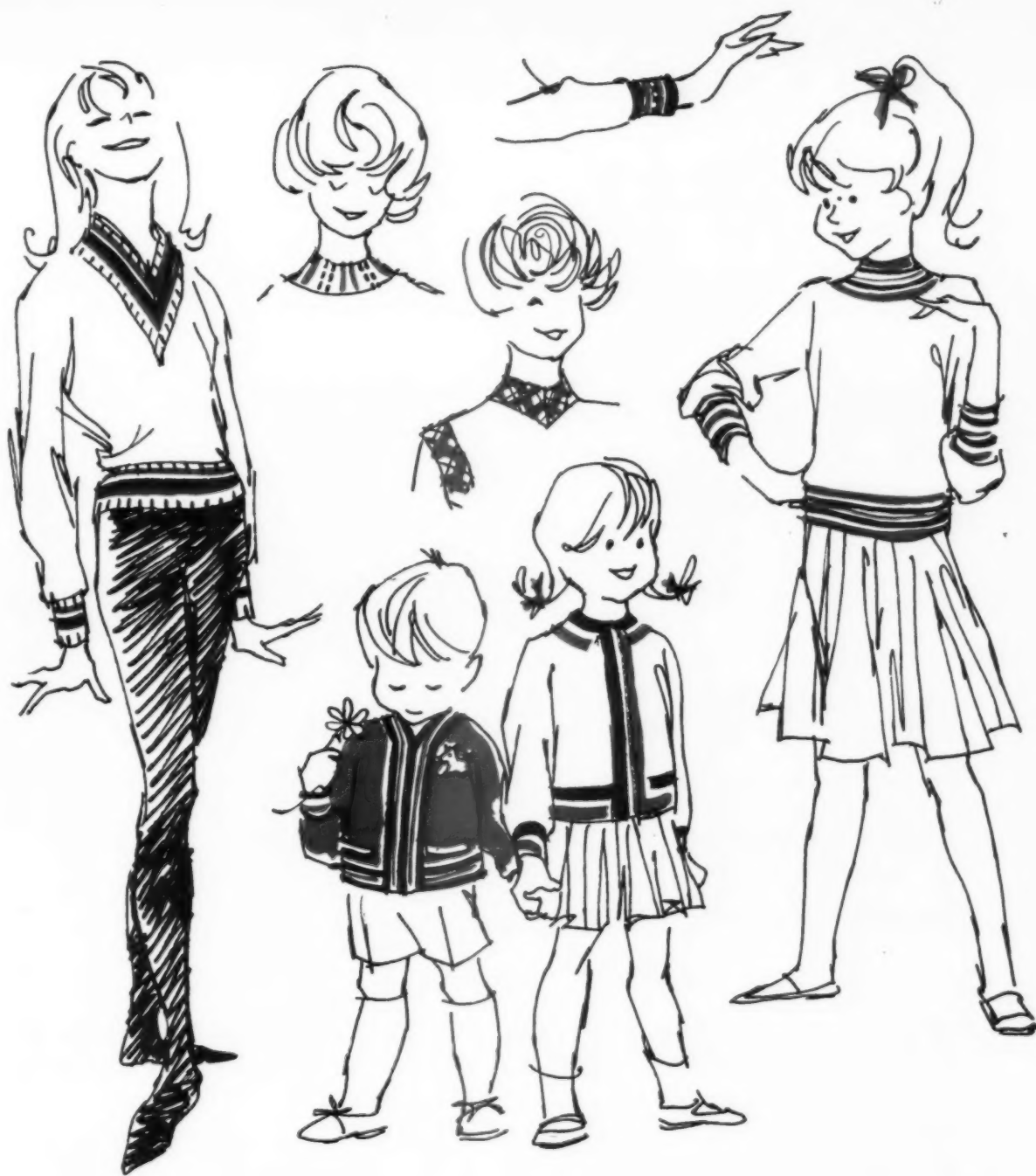
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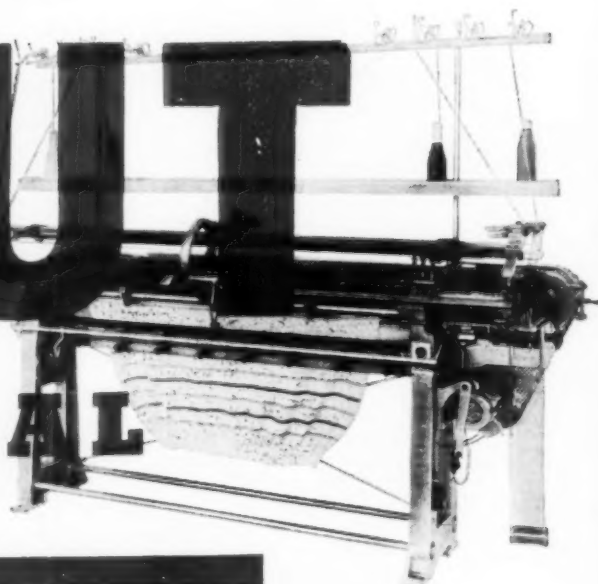
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increase. Consequently, we can ignore the added figures

$$\frac{(100 + T\%) \times 33}{100} \times \text{Width}$$

as they equal one (1) and we can use our simpler formula (#1) in our calculation for surface stitch.

Although technically the Tie-ins are tuck stitches, there is a difference if the tucking needle is placed between two or more Welts (as is the case in Tie-in patterns), or between two Knits (used for more textured effects), because in the latter case the angle of inclination is smaller and more yarn is used. The tendency to widen the cloth and to increase the cloth thickness is more acute. A relatively small number of tuck stitches of the latter (textured) form widens the cloth considerably, but this tendency is neither in a direct proportion to the percentage of tuck stitches nor in a linear function.

The foregoing calculations cannot be simply applied to tuck stitch (textured) patterns. However, it would exceed the scope of this study to go into the necessary changes for these kinds of patterns.

Before any measuring is done, we have to make sure that the fabric is in a relaxed condition. As the fabric leaves the take-up it is in a state of tension which varies depending upon the tension under which the knitting is performed. It is known that a true measurement is possible only after a relaxation of at least 24 hours or after a wetting and air drying process. However, we can find a fairly accurate measurement with a practical method which we might call a "quick relaxation." We lay the fabric, as it leaves the take-up, on a flat cardboard and shake the cloth gently. We notice that the width will increase by about three percent and, in this state, we measure the pattern repeats in the center of the width. If always measured the same way we will always have the same reasonably accurate measurement and we achieve one of our goals: Uniformity.

But even taking these precautions it would be extremely difficult, inaccurate and in some patterns impossible to count the stitches on a one-inch basis. There are two ways of counting and thus verifying that we have the required amount of surface stitches:

1. Count the number of machine revolutions (stripes caused by knitting a yarn of different color on any knitting section) or, if clearly visible, the pattern repeats on a standard six-inch ruler.

2. Measure with a ruler the length in inches of six stripes or six pattern repeats.

The number of pattern repeats on any given length depends on three factors: 1) surface stitch per inch; 2) number of knitting sections; and 3) percentage of Knits.

The formula for the first method (how many pattern repeats to six inches) is:

$$(\#3) \quad \frac{\text{Surface stitch} \times 6}{\text{Feeds} \times K\%} = \text{Pattern repeats to 6 inches.}$$

Where:

Surface stitch = Result of calculation from  $K\% - W\%$  (Formula #1)

6 = The standard sized ruler of 6 inches

Feeds = Number of knitting sections

First example: The pattern has 50 percent Knits and 50 percent Welts and therefore 24 surface stitches per inch. It is worked on a 32 feed machine:

$$\frac{24 \times 6}{32 \times 50} = \frac{144}{1600} = 9 \text{ Repeats to 6 inches.}$$

Second example: The pattern has 75 percent Knits and therefore 28.25 surface stitches per inch. The calculation, to find the pattern repeats, is:

$$\frac{28.25 \times 6}{32 \times 75} = \frac{169.25}{2400} = 7.05 \text{ Repeats to 6 inches.}$$

TABLE I.

Machine 26", 1500 Needles, 32 Feed, Yarn 16/1.

Knits %	Surface-stitches per inch	Pattern repeats to 6"	Inches for 6 Pattern repeats	Yield Sq./Yds. per lb.	Assumed Width	Counter numbers per lb.	Hourly Production in lbs.
100	32.50	6.09	5.91	1.70	33	7.87	16.82
95	31.65	6.24	5.78	1.68½	33	7.95	16.65
90	30.80	6.42	5.61	1.67	33½	8.03	16.48
85	29.95	6.61	5.44	1.65½	33½	8.13	16.28
80	29.10	6.82	5.27	1.64	34	8.26	16.02
75	28.25	7.06	5.10	1.62½	34	8.42	15.74
70	27.40	7.34	4.90	1.61	34½	8.61	15.39
65	26.55	7.66	4.70	1.59½	34½	8.84	14.98
60	25.70	8.03	4.48	1.58	35	9.11	14.54
55	24.85	8.47	4.25	1.56½	35	9.44	14.03
50	24.00	9.00	4.00	1.55	35½	9.88	13.41
45	23.15	9.64	3.73	1.53½	35½	10.41	12.73
40	22.30	10.45	3.44	1.52	36	11.09	11.94
35	21.45	11.48	3.13	1.50½	36	12.03	11.01
30	20.60	12.87	2.79	1.49	36½	13.20	10.03

For the second method (how many inches are six pattern repeats) we have the same factors in a reversed formula:

$$(\#3a) \quad \frac{\text{Feeds} \times K\% \times 6}{\text{Surface stitch} \times 100} = \text{Inches for 6 repeats.}$$

$$\text{First example: } \frac{32 \times 50 \times 6}{24 \times 100} = 4 \text{ inches (6 pattern repeats measure 4 inches).}$$

$$\text{Second example: } \frac{32 \times 75 \times 6}{28.25 \times 100} = 5.10 \text{ inches (6 pattern repeats measure 5.10 inches).}$$

Since the number obtained in the answers of the preceding formulas may be difficult to use in practical application, they may be rounded off to the nearest 1/8th (either of one pattern or of one inch).

As we know the important data for surface stitch and the way to measure it, we can easily predict how many revolutions the machine has to make in order to knit one yard or one pound of fabric. We can also predict how many numbers on the production counter we need for one pound. This data will enable us to cut all fabric rolls uniformly at the desired size and weight of yardlength. We need in addition to our obtained data the accomplished yield for the particular pattern (See Table I.). We have to know the factors:

1. Pattern repeats to six inches
2. Yield
3. Width of fabric
4. Number of machine revolutions per counter number

The formula to find the counter numbers per pound, assuming we are working on a 26-inch machine and using the conventional Veeder-Root counter, would be:

$$(\#4) \quad \frac{\text{Repeats} \times 6 \times 36 \times \text{Yield}}{\text{Width} \times R/Cn} = \text{Counter numbers per lb.}$$

Where:

Repeats = Pattern repeats to 6 inches.

6 = Six times the repeats giving one yard length.

36 = 36 inches to one yard giving one yard width.

Width = Actual width of fabric at the time the repeats are measured.

R/Cn = Machine revolutions to 1 counter number.

Example: How many counter numbers do we need for 1 pound of fabric with a pattern having nine repeats to six inches and a yield of 1.55 (tubular) square yards per lb.?

$$1 \text{ lb.} = \frac{9 \times 6 \times 36 \times 1.55}{35.5 \times 8.61} = 9.88 \text{ Counter numbers.}$$

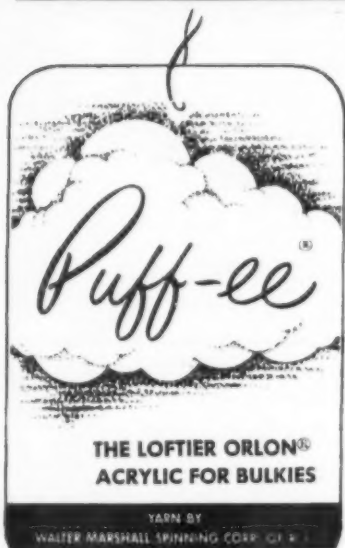
The figure for  $R/Cn = 8.61$  is found from the gear ratio of cylinder gear: drive shaft pinion gear =  $302:26 = 8.61$ .

The predicted counter numbers per pound can be used as an excellent quality control. If a roll of fabric weighs more than predicted

(Continued on Page 64)



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## Men's Wear

# Revere Dramatizes Color And Pattern In Fall Range

By EDWARD LANGILLE

WAKEFIELD, Mass.—Sales personnel of Revere Knitting Mills previewed the company's fall line at the Park Sheraton Hotel in New York from March 11 through the 13. Highlights are new colors and new patterns in very conservative styles. Grape, generally acclaimed as the seasonal color for fall, has been used only as an accent shade in the Revere line. On the other hand, Revere has produced new colors of its own such as port wine; bark brown; a new brass combining gold and black; a new olive lighter than the conventional; a new loden; and a lighter gold. A new fog blue and the oxford and tan heathers will be prominent in Revere's forthcoming fall styles.

Revere has gone in for brushed wool, Orlon and wool blends extensively. Style-wise, closures on cardigans will be higher, with six-buttons generally used and a higher closure on five-button sweaters. Low-holders have been practically eliminated from the line.

As this company's stylists see it, the fall season will be a big one for pullovers; there is a tremendous variety in V-necks extending from the very deep to the very shallow. Revere estimates that sales, this year, will run 60 percent in pullovers as against 40 percent in coat styles, the reverse of a year ago.

## Stress On Shawls

A good year is also foreseen for shawl collars, which Revere is using on cardigans and pullovers, and for crew necks, with perhaps a lessening demand for boat necks. Continental novelty collars and neck openings have been used widely and this line includes more lapel and notched jacket effects.

The company's president, Bert Green, said that the TV viewing of sweater wearers at Squaw Valley has had a terrific impact that will be excellent for the sweater trade. A strong market is thought to be in the offing for both plain and novelty styled bulkies, and turtlenecks are expected to return to popularity.

However, this firm has also increased its line of flat goods for the 1960 fall season and will offer a large selection of cut-and-sewn-shirts of 80 percent Orlon and 20 percent wool and also a new line of shirts of napped and

sheared Orlon. Lots of embroidery has gone into Revere shirt lines. This work has been carried out in significant figures, geometric designs, arrow heads and the like, widely spaced.

## Sweater-Shirt Range

For sweater-shirts, Revere is using 100 percent Orlon and 100 percent Texturalized yarns. Raschel construction has been frequently used on shoulders and sleeves of interlock sweater bodies. Styling throughout the line runs more to the conservative, relying on new colors and patterns to provide the novelty.

Patterning is particularly important in the bulkies and this company has shifted somewhat to work on Tricoma and Universal flat bed machines with more Dubied equipment used for trims. Striping has been treated very lightly with contrasting colors, so used, scarcely more than an edging. Various rick-rack, cable, hob-nail, pineapple, and waffle stitches have been combined to form a variety of new patterns. Jac-

quard construction is also making a strong comeback in the Revere line and has been used in floral, geometric, Norwegian and mosaic designs.

It is anticipated that knit vests will show some weakness except in the coordinated lines, and Revere is introducing some of these garments in woven fabrics. However, the coordinates and family goods are expected to be very much in demand and a number of sets have been included for fall consisting of a cardigan and two pullovers, one with a fancy neckline and one plain. Shirt and sweater sets will also be more numerous with sweaters of wool matching shirts of Orlon in color, style and trim.

Mr. Green said that last year's sales were up thirty percent over the previous year with the greatest percentage growth in knit shirts. He also said there is a continuing tendency to trade up and that prices are likely to be higher due to increased labor costs. This company is now operating on a basic 35 hour week.

## Foreign Competition

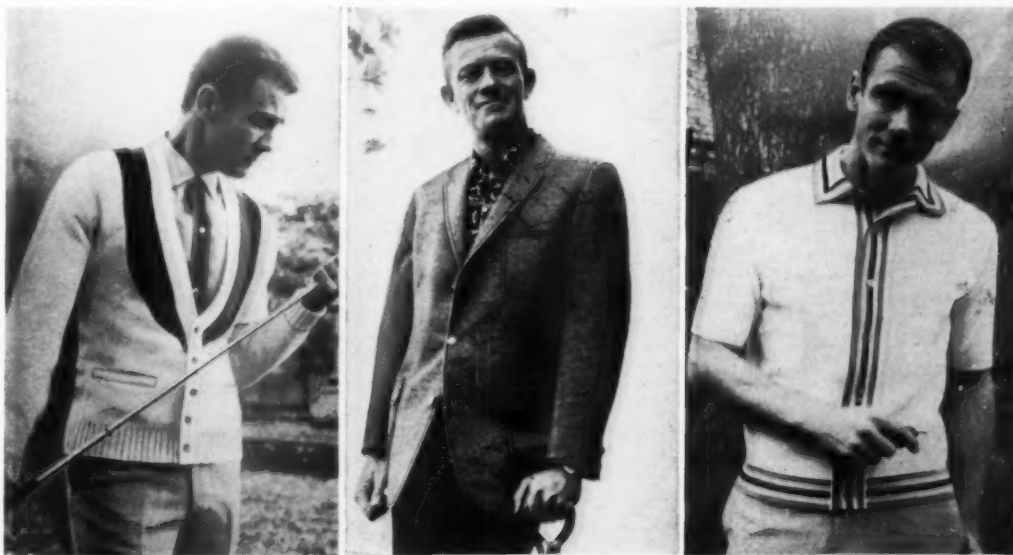
Mr. Green was also apprehensive about foreign competition, particularly from Japan, and said that beautiful creations are now coming from that

country, much more finished and perfected than early offerings. Like other members of the National Knitted Outerwear Manufacturers Association, he has addressed senators in hope of forestalling any reduction in tariffs that might be contemplated at the forthcoming Geneva meetings.

The phenomenal spring success of two special Revere promotions, the Dr. Cary Middlecoff line and the Pat Boone coordinates, has prompted the company to expand in this direction for fall. Two new pull-over-coat coordinates will be brought out under the Dr. Cary Middlecoff name. These are of tow-dyed Orlon, offered in nine colors. Made up in a two on one rib, both the coat and pullover will have patch pockets with a fine edge trim of contrasting color. One set features a high close coat sweater to be worn with a V-neck pullover. All sweaters for this line will have the bell sleeves which have distinguished these garments in past seasons.

Pat Boone coordinates actually consist of two promotions; one set consists of an interlock coat with notched cross-over collar, a V-neck pullover,

(Continued on Page 37)



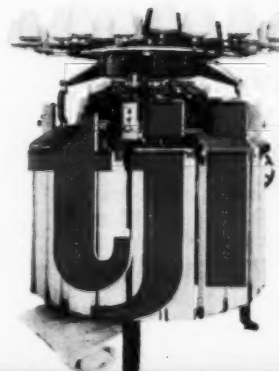
Knitted wool offerings for the spring-summer season range in variety from the lightweight five-button cardigan, left, by Drummond, to a porous button-front shirt by Oleg Cassini, right. Patch pockets and natural shoulder lines distinguish the worsted jersey jacket, center, by Varsity-Town. The garments appear in a spring-summer fashion supplement distributed by the Wool Bureau, Inc.



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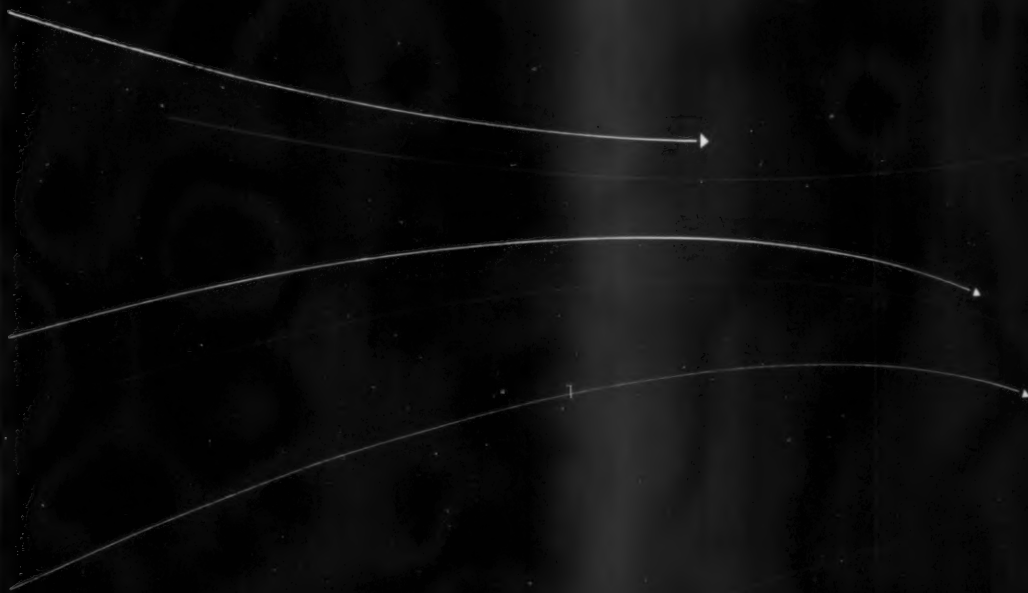


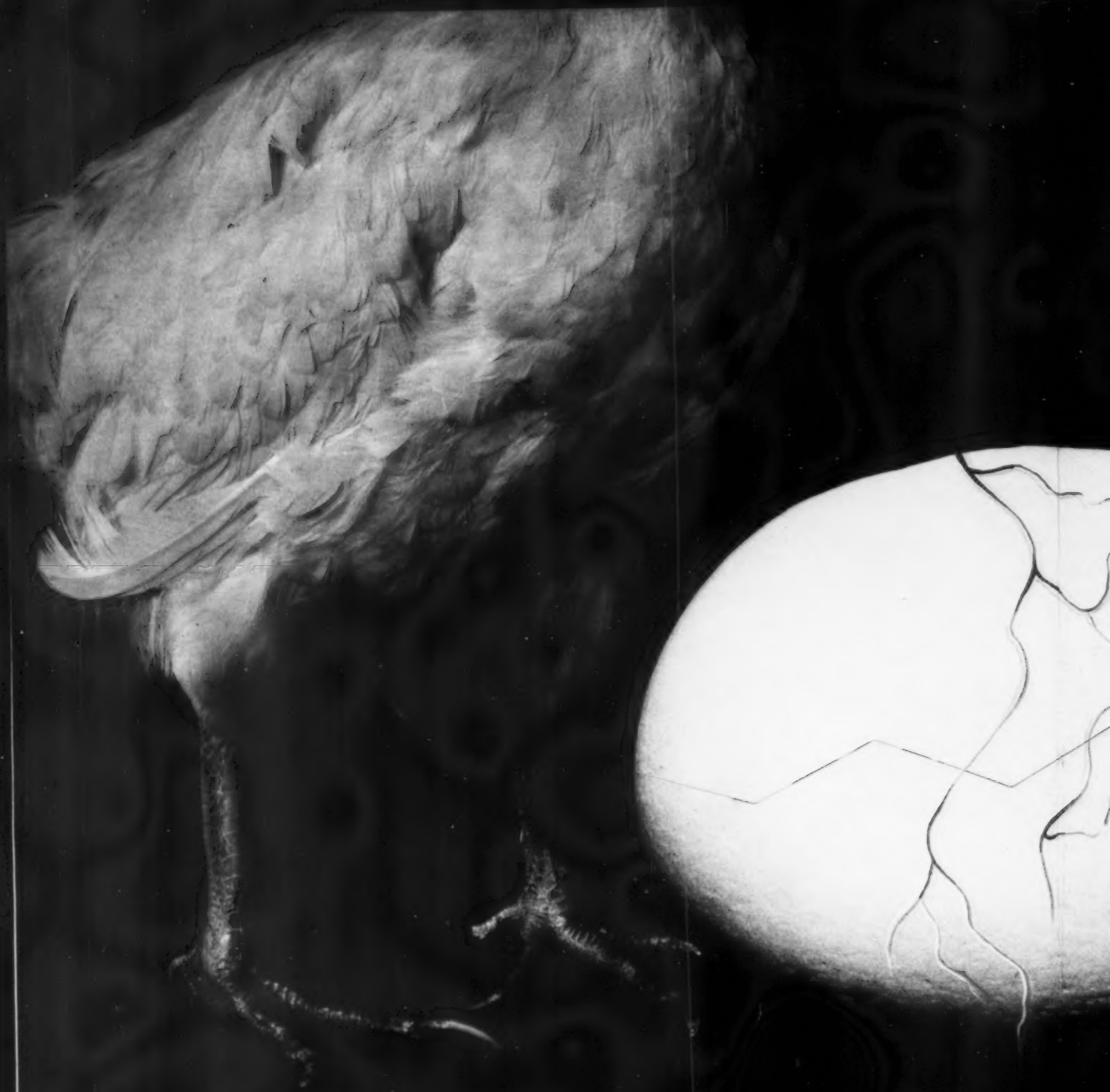


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## Ladies' And Misses'

## Jantzen Endorses Texture And Feminine Look For Fall

By VIRGINIA CORNING

PORTLAND, Ore. — The "pretty look" and feminine appeal in "colors that kiss" characterize 1960 Jantzen, Inc., fall sweaters and coordinates for women. Texture is important whether it is a softly brushed or "fluffed" look, the kind of surface texture which is inherent in the stitch itself or a pattern of stitches. The new line, however, offers a full range of knitted fabrics from flat knits to bulkies.

A trend toward natural fabrics is noted, but today's fondness for easy-care characteristics is not forgotten, and synthetics find a place in various new blends.

There's a variety of styling; however, an uncluttered feeling prevails even in dressmaker styles, where line, texture and color tell the story without undue competition from complicated detailing. The silhouette is described as "natural and supple." While old favorites are present in new versions, the collection in general has a very new, fresh feeling.

**Blouson Silhouette**

An interesting note is the renewed importance of the blouson silhouette. The big rolled or cowl collar, like a huge turned-over cuff, is found in several sweaters. A rather long, loose-fitting look is frequently seen. This easy fit is not, however, the extremely casual looseness of the chemise or the sloppy joo styles of recent seasons.

Color trends embrace both the rich, clear, glowing colors and the new "no-color" neutrals. The latter are represented in particular by a "no-color" green and a shade called "China tea." Last year's camel is succeeded this year by a richer shade, vicuna.

Other colors, as described by Jeri Holmes, Jantzen fashion and merchandising coordinator, include chamois, a gold-influenced beige; brick, a coral-influenced red which is almost an orange; a purple-influenced bachelor blue; and a purple-influenced cherry red. There are also a classic light blue, a purple and a rather bright turquoise, edging toward a blue. Charcoal gray is regarded as important. Marling, with many colors heathered into one, is important this year in both men's and women's lines.

Colors are planned not only for exact color matching, but also to blend or to contrast subtly with each other, or, as Jantzen phrases it, "colors that kiss."

Jantzen skirts, which accompany the various sweaters and tops of the 1960 line, give definite acknowledgement to the current Paris trend toward pleats. "Controlled pleats" are especially stressed, often stitched down over the hips. Unpressed pleats are another possibility.

Brushed and fluffed textures rate much attention in the 1960 line, both in mohair and angora groups, with at least eight or 10 sweaters for each of these categories.

**Mohair Blend**

For the new season, Jantzen's wool and mohair blend contains 40 percent mohair, a greater proportion than was used last year. The new yarns are made in Jantzen's Portland plant and this year are minus any white frosting. The completely dyed yarn is said to result in a livelier color and a more perfect match for woven coordinates.

The "Mohair Pull," done in



Jantzen's fall variations on the cardigan theme encompass the mohair blend sweater, at left, in an allover diamond motif, and the zip front wool herringbone treatment.



a vertical rib, features a big "rollaway" or cuffed collar. Offered in a wide color range, it will retail at \$14.98. Worn with flat knits or wovens, it gives a vibrant texture contrast.

The "Heat Waves" pullover, boat necked and long-sleeved, is enlivened with narrow, wavy horizontal stripes across the front; back and sleeves are in solid color. Combinations used for the stripes include cherry red and purple, no-color green and turquoise, bachelor blue and China tea, China tea and gray heather, black and vicuna.

"Diamond Lure" is a jacquard knit mohair cardigan in a diamond-shaped pattern, done in two colors. An unusual effect is gained by continuing the diamonds completely down onto the band and cuffs for a unified effect. Only the ribbed collar is in solid color. Pearly buttons are set down the front.

Other fluffed mohair models appear in classic stylings, including one with a wide collar and three-button placket which can either be buttoned at the neckline or worn as an open V.

Paying tribute to campus interest in the Shetland look, there are heather blends, too, in the wool and mohair mix. Among them is a "Brigadoon" pullover and cardigan, with attractive semi-floral jacquard patterning encircling the youthful round neck. These are presented in the no-color green, turquoise or vicuna, at \$13.98 and \$16.98, respectively. They coordinate with a skirt and tapered slacks of worsted.

**Yoke Design**

"Norski" is an unbrushed mohair and wool blend pullover, with raglan-sleeves, and a pattern outlining a yoke design across shoulders and chest.

The line also includes a pair of imports fashioned on hand-operated machines in a mixture

(Continued on Page 31)



Pullovers from Jantzen's 1960 fall line include a "Fair Isle" patterned brushed mohair blend model, left, over Acrilan knit pants and an angora blend number with a cowl collar in a textured design.

# As one man from Caron sees it...

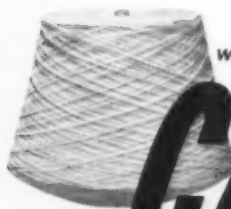
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## Swimwear

### Distinctive Styling Spurs Resort Interest In Knits, Cotton, Lastex

BOSTON, Mass. — Charles Chadis, proprietor of Chadis Knitwear Company, one of the few in-stock wholesale houses for ladies' swimwear, here, said that while the resort trade appears to be dwindling in this area, distinctive new styles are creating a strong market this year and a tendency to trade up.

Mr. Chadis said interest was very good in Orlon knits, pleated skirts models and boy pant suits in cotton and woven lastex models. There is a very fair demand for Helanca. He also said that he found interest somewhat lighter in two-piece suits this year and that the one-piece number with skirt was most popular. Maillots are wanted in the junior sizes by retailers in beach towns but the biggest business getter of the season appears to be a full-skirted suit for sizes 40 to 46 with separate Lastex panties.

Mr. Chadis said that black was a far-and-away favorite with royal blue close behind it, followed by lighter solid shades. Pastels are pronounced very weak, here.

#### Hawaiian Floral Print

Chadis sells swimwear under its Sea Queen label. One of four top sellers is a cotton Hawaiian floral print with a draped half-skirt front, shirred back, halter straps and boned bra. It comes in tones of white, green and aqua; red, orange and white; and also brown, white and tan. Shades blend into one another attractively.

Another style selling well is a novel one-piece Orlon suit designed to have a double-breasted effect. It has a quarter skirt in front, a V-neck, low back and wide shoulder straps. Four large white buttons are set in two rows on the front panel; the V-neck is crossed over to give the impression of being a part of the panel. A newly designed porous padded bra is used. Solid shades of red, royal blue and black are especially popular in this style; it is also available in gold or green.

In the pleated skirt range, a white Arnel sharkskin model is a favorite. It has a ruffle trim

on the bodice and down the front in a plaid print of white and aqua or rose, also used for the bow at the waist. It comes with bloomer type elasticized pants and shirred back.

#### Boy Leg Leads

In Lastex, Mr. Chadis said, the leading suit is a one-piece cuffed boy leg style offered in a small check pattern of white and red or blue. It has white leg cuffs and an insert of white along the top of the bodice. This suit boasts halter straps and rounded zipper back. Trim consists of a small slot center opening and an eight inch tab down the front decorated with three white cloth-covered buttons.

Chadis also offers a selection of misses' polo shirts colored to match black cotton jersey Bermuda shorts which are lined and have a zipper back. The shirts, of Alamac's Permathal Everglaze cotton, highlight novel styling.

#### Harlequin Pattern

A harlequin patterned top has three-quarter sleeves with red at the top and white on the cuffs on one side and the combination reversed on the other. The body of the pullover is made up of

four squares of red and white with matching shades set diagonally. An anchor of white on a red background is used for trim. The two shades used on the squares are separated by a narrow blue tape. The waist is straight and the back is all white.

There is also a shirttail pullover rounded at the bottom, which comes in white, black

and aqua. It has short sleeves, a boat neck and a rope tie about the waist. The fabric alternates vertical panels of fine and wide ribbing.

There is also a sleeveless boat neck pullover of waist length that comes in solid shades of mint, gold or black. It is fringed at the bottom with white threads mingled with those of the basic color.

### Knit Swimwear Receives Emphasis In Sinclair Mills' 1960 Collection

By MYRNA MACHLIS

Knitted swimwear is strongly featured in the Sinclair Mills, Inc., 1960 collection of misses' and juniors' swim suits. Woven elasticized numbers are important, along with woven cotton models. An elasticized Vyrene suit is also incorporated in the collection.

The maillot predominates in the knitted group, although there are woven elasticized models in this style. Sheaths are strongly featured in the latter group. Boy leg and culotte numbers are important in the woven cotton category.

On the whole the one-piece suit predominates although some two-piece numbers are included. Sinclair is offering a suit for the not so daring which can be worn as a one-piece number, and then converted to a less covered up

style. The firm is also producing a woven cotton Bikini.

#### Checked Culotte

A top number in the line is a woven cotton and Dacron culotte in a check pattern. The suit has a camisole top, and elasticized sides. A patent leather belt circles the waistline. The number is offered in sizes 10 to 18 and wholesales at \$12.75.

A two-piece number, with the culotte pants, is also available in either the same check fabric or in a cotton and Dacron plaid. This suit has an Orlon knit strap, which fits over the head halter fashion. The two-piece number wholesales for \$10.75. Both suits can be topped with a matching Eisenhower-type jacket.

(Continued on Page 31)



The woven cotton Bikini, left, is in a bold polka dot print. It sports ruffled pants. The woven elasticized maillot center, has a tie in front. The diamond patterned wool knit suit, right, features six button trim and solid color binding. All are by Sinclair.

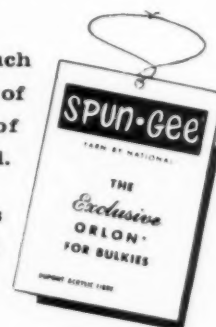


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A wide and shallow square neckline enhances the easy, airy feeling of the vertically textured short-sleeved slipover, shown at left.



Two viewpoints of the ensemble are illustrated above. A richly textured casual coat edged in a darker shade tops a slender flat knit sheath, at left. Both buttonless cardigan and widely belted sheath, at right, dramatize stitch novelty.

Loose three-quarter sleeves and a notched lapel treatment mark the straight line cardigan of the two-piece ribbed suit, seen below.



An amply collared cutaway jacket tops a slipover in the three-piece costume, above, revealing just enough of the ladder rung stitching.

The vertically ribbed sweater shirt, at right, has a rounded collar and is subtly contrast tipped at placket, cuffs and hem.





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## Knitted Yardgoods

### Wyner Highlights Textured Fabric

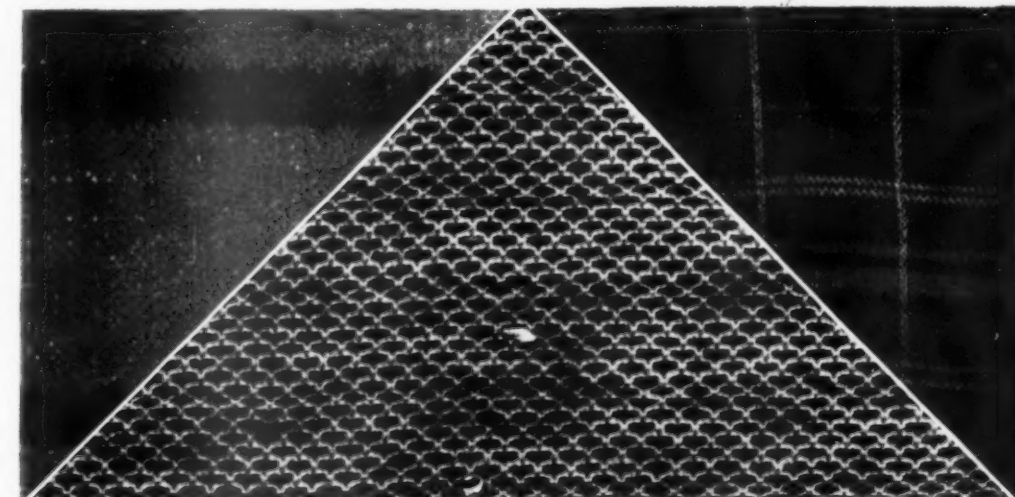
Texture interest is of importance in the I. A. Wyner fall collection. Wool face and cotton back goods are significant, although 100 percent worsted and 100 percent cotton fabrics are also included. The firm's staple 100 percent worsted jersey is offered in seven, eight and nine ounce weights in both 52 and 54 inch widths.

Putty green, rum gold, a light beige, a deep red and sapphire blue are predominating colors in this collection. Heather tones receive considerable emphasis. The firm also offers a number of hound's tooth patterns.

A 100 percent worsted cloth in a lacy stitch is available in tan and gray heather tones as well as solids. This textured fabric is offered in an eight ounce weight.

An interesting effect is achieved in a cloth which incorporates 96 percent worsted and four percent rabbit's hair. One side of the fabric produces a diagonal narrow rib effect. The reverse side is solid and features a slub, which is produced by the rabbit's hair.

The hound's tooth worsted highlights this popular pattern in miniature through large sizes. All are in two-shade combinations. A 10-ounce cloth, which



Horizontally striped worsted fabric, left, has heather highlights. The interesting patterned tweed, center, is in a worsted and silk combination. 80 percent acrylic and 20 percent worsted combine in the multi-colored plaid, right. All three are by Fabricland.

features a large check, gives the illusion of a modified star pattern.

A textured worsted fabric sports a two-tone brickwork pattern. This nine-ounce cloth is offered in 54 and 56 inch widths. It is particularly striking in a black and brown combination.

Another textured worsted fabric has a nubby tweed surface. It is available in either two- or multi-colored combinations.

An embroidered look is achieved in a wool face and cotton back fabric. This cloth features a vertical diamond pattern intersected by embroidered design.

### Muted Tones In Fabricland Line

Subdued plaids, stripes and overall patterns comprise the Fabricland fall collection. A blend of 80 percent Acrilan and 20 percent worsted is the predominant composition, although 100 percent worsted and cotton are also included. A worsted and silk combination is also important.

Gold, sherry, wine and claret are the prevalent colors. Along with these high fashion shades, black, white, tan and gray are also important. The heather tones are worthy of mention.

One fabric in the Acrilan and worsted blend has an unusually soft hand. This flat knit cloth is available in eight and 10 ounce weights.

#### Hopsacking Effect

A hopsacking effect is achieved in another Acrilan and worsted cloth, which simulates a woven look. Marl tones are highlighted. The same composition is incorporated in a fabric featuring a heavy vertical rib.

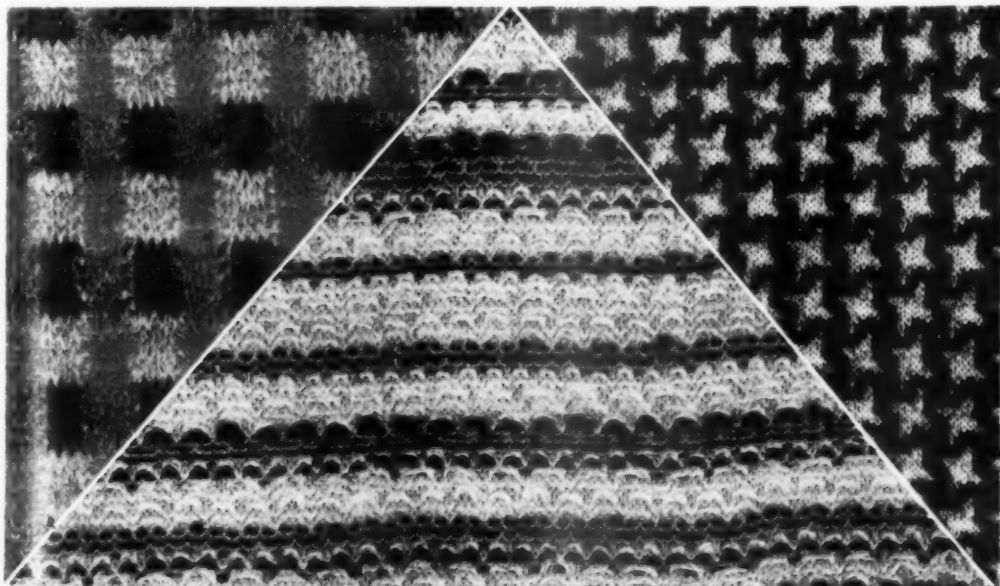
A miniature hound's tooth fabric is featured in the blend. This cloth is offered in both solid and heather tones. A tiny herringbone is also highlighted.

Madras type treatments are prevalent among the men's wear offerings. One in a gold, black and brown combination is particularly striking. This cloth is offered in 100 percent cotton and in the Acrilan and wool combination.

An array of solid shades is available in two-ply Durene yarns in 60 inch widths, for the men's shirt trade.

A group of woven look fabrics is incorporated in the collection. These cloths of 70 percent worsted and 30 percent silk are offered in a variety of color combinations. One such fabric sports a small diamond pattern. Another features narrow horizontal striping.

A tweed cloth in the Fabricland line is an 80 percent worsted and 20 percent viscose combination. The textured tweed surface is on a vertically ribbed fabric. It is especially attractive in shades of blue and green.



Wyner's checked fabric, left, is in three tones. A wool face and cotton back are used, center, for an interesting horizontal design. A miniature hound's tooth pattern is featured in the Wyner cloth, right.

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### Swimwear

## Skirted Numbers, Sheaths Pervade Coral Reef Line

Woven elasticized sheaths and dressmaker numbers comprise the majority of suits in the Coral Reef 1960 collection. A knitted maillot is also included in the line. Shades of gold, black, red and blue predominate. Plaid and checked models are also important.

The top number in the line is of solid color Arnel with contrasting checked cotton trim. The pleated skirt, which begins at the hipline, is bordered by the check trim. The body of this dressmaker is shirred and the bra has the check edging at the top. The suit features an elasticized back and wholesales at \$45 per dozen.

Also of importance is a knitted maillot of 20 percent acetate, 24 percent cotton, 42 percent Orlon and 16 percent rubber. This tank suit has the conventional scoop neckline and low scoop back. Four white but-

tons, arranged to give the suit a double-breasted look, decorate the front of the number. Yellow, red and blue are the available solid shades. The suit, which wholesales for \$4.75 per garment, is also offered in a narrow horizontal stripe design.

#### Front Panel

A solid rubber woven elasticized sheath features a flat front panel running from under the bra to the skirt. Shirring is highlighted on both sides of the panel. Wide straps coming from the tucked bra and tied around the neck give the suit a halter look. This sheath, available in black, red, peacock and gold, in sizes 32 through 38, wholesales for \$4.75 per garment.

Another solid rubber woven elasticized model features a sarong drape skirt. This one-piece strapless number is offered in peacock and white and wholesales at \$5.75.

A woven elasticized sheath, at \$3.75, in a narrow stripe, features a white tab with three-button trim at the bra. Another sheath in the same category is highlighted by a large white buckle decorating the left side



Sarong treatment is featured in the Coral Reef woven elasticized swim suit, left. This strapless number has a high rising waistline which comes to a point beneath the bra. Coral Reef's Arnel dressmaker features checked cotton trim around the pleated skirt and bra. It sports a bow of the same check at the bra.

of the bra. This suit also wholesales at \$3.75.

Plaid treatments are important, as illustrated by a woven cotton black watch dressmaker.

It has permanently pleated white Arnel skirt and bow at the bra. The suit has flaps at the bustline which are lined in a white cotton trim.

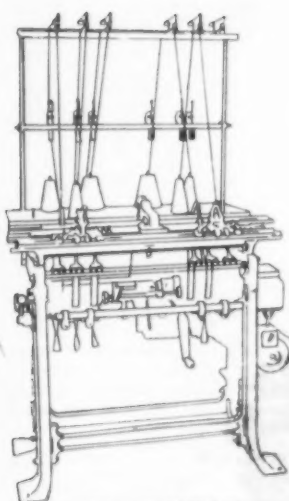
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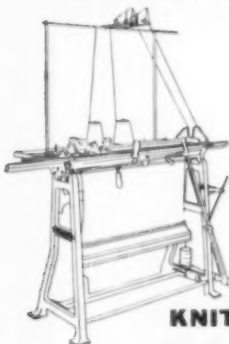
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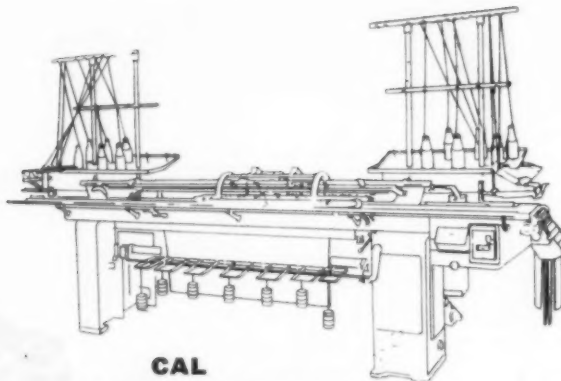
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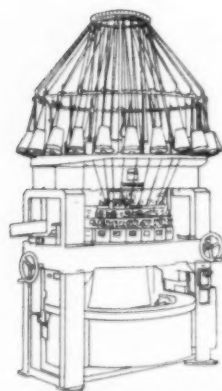
**MR - 2 HEAD  
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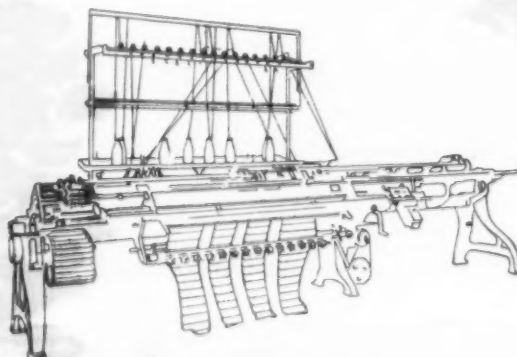
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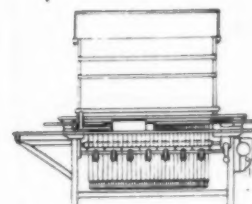


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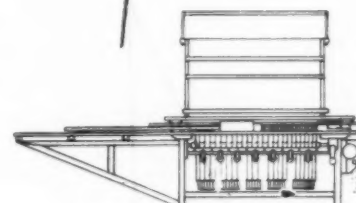


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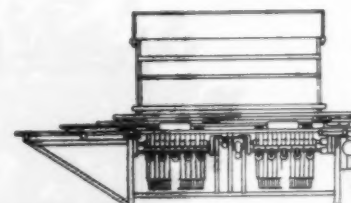
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**Swimwear****Knits Highlights Of Sinclair Line***(Continued from Page 23)*

A vest effect is achieved in a one-piece cotton and wool mailot. The suit is in a herringbone plaid and has a sweetheart neckline, with two-button trim where the straps meet the body of the suit. Three more buttons run down the bodice of the suit. The mailot is offered in white with black, blue or brown, at \$10.75 wholesale.

**Diamond Pattern**

Another knitted number of wool, nylon and rubber, sports an interesting diamond design. A double-breasted look is accomplished through the use of six large buttons which run down the front of the suit in two widely spaced rows. This sheath, with scoop neckline, is offered in black, brown and blue with white at \$10.75.

A two-piece boy leg model adds an interesting touch to the line. This cotton number at \$8.75 wholesale, sports a vertical stripe in white with turquoise or chartreuse. Also in the two-piece category is a woven

**Ladies' And Misses'****Jantzen Endorses Feminine Look, Texture In Fall Knit Collection***(Continued from Page 21)*

of 80 percent mohair and 20 percent nylon. These are lacy knits — a collared cardigan, called "Angel Hair," in a diagonal overloop stitch, and "Party Poufer," a blouson pull-over in a hammock stitch. Both have three-quarter length raglan sleeves. They will retail at \$22.98 and \$19.98, respectively.

Jantzen's group of angora fur blends combines, in most cases, lamb's wool and angora rabbit, in almost equal proportions.

In one pullover, a ribbed collar extends downward into a four-button placket, to be worn either buttoned or plunging, at the wearer's option. Another has a collar ending in two small tie ends, which can be worn in a sailor's knot.

A collarless cardigan has a small V-neck closing, and the sweater fronts are edged with a rather wide band of horizontal ribbing which also outlines the

cotton Bikini featuring a large circle pattern. The pants have a double row of ruffles in the front.

A woven Lastex number worthy of particular mention has a tie of the same fabric in the front. This maillot has a sweetheart neckline and narrow shoulder straps. The suit is offered in blue, lilac and banana and wholesales for \$9.75.

A one-piece number that converts into a two-piece model is of woven Lastex. This boy leg number has a bra which reaches to the pants and buttons at the waistline. The suit has sweetheart neckline and narrow shoulder straps. It wholesales for \$9.75.

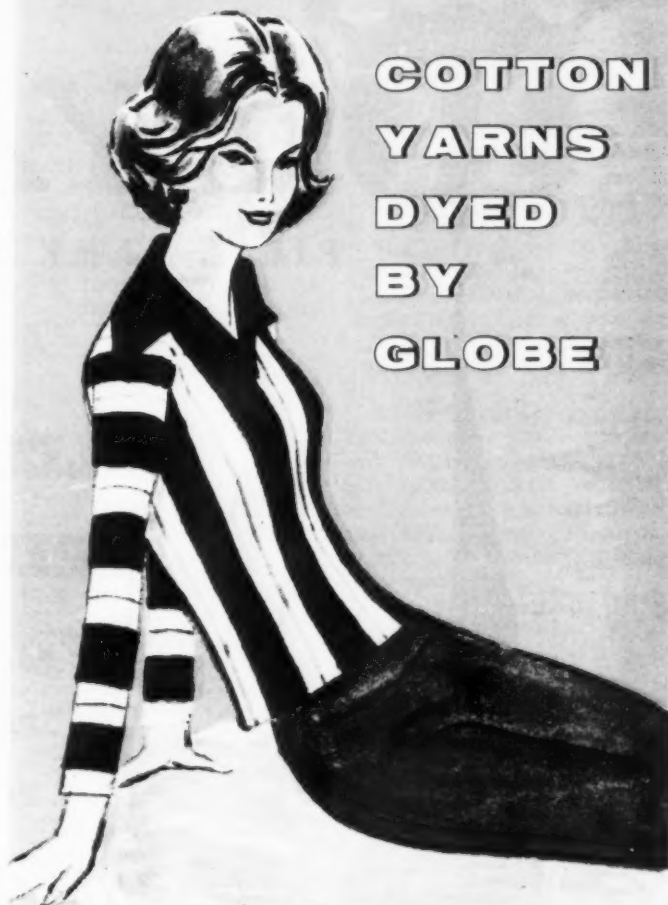
**Coughlin Heads Ansonia Marketing And Research**

Thomas F. Coughlin has been named director of marketing and research for Ansonia Mills, producer of elasticized fabrics for swimwear, foundation garments and other industrial uses.

Prior to assuming his new post, Mr. Coughlin was the Ansonia sales representative in southern New England, New Jersey and New York for the past five years.

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The "Jangora" sweaters, in the half-and-half blend, are to have matching fur blend skirts to go with them.

Sixteen percent Angora rabbit is used with 64 percent wool and 20 percent Acrilan in a pullover with big rolled cuff collar, framed in white angora trim. Done in an allover texture pattern, this is a strikingly effective sweater which will retail at \$25.

The bulky group in the 1960 fall line includes styles in all  
*(Continued on Page 33)*



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wool and others in Orlon. Some few of these are imports, including a handsomely cabled "Ivy Twine" collared cardigan and "Swiss Twist" pullover, both with raglan sleeves. Particularly interesting among the cabled offerings is the little Chanel cardigan in zephyr wool, done in large and small cabling and finished with dainty hand-crocheted edge. Hand-crocheted detailing is found, too, on other numbers in the line.

A sizable group of styles in the women's line is made up of match-mates for the men's line, both in mohair and bulky wool. These include a textured cardigan with husky-looking shawl collar; marled and heathered numbers of Irish or Scottish influence; and the boatnecked "Rally Queen," done in a shaker stitch and worn with cotton Peter Pan shirt collar showing liberally above the straight neckline.

#### Textured Herringbone

A textured herringbone pattern in a two-tone scheme provides the interest in an all wool lightweight bulky, called "Big Zipper." A purl knit border edges the full-length front zipper, the

band and the snug, round neck. Long sleeves are tapered, with elastic inserts in cuff and waistband.

High-bulk Orlon is represented by several interesting novelties — including a cardigan and a pullover with placket, both done in hobnail knitting, using Orlon 21 and 72.

There's a cabled cardigan in a fluffy jumbo knit. A pullover in the same type of stitch features another of the big rolled collars, this time given added importance by an intriguing cabled edge.

#### Lightweight Mixture

In another group, Jantzen emphasizes the prevalent textured feeling with a knitted fabric called Onde. This is a very attractive move in the direction of lighter weight sweaters, and is a mixture of Orlon and wool with a dainty and feminine look.

Dyed-to-match groups this year use a new blend of wool and Acrilan for a procession of youthful styles in sweaters with matching skirts. The wool content this year is higher than in previous seasons and much of it is South African Cape wool, said to give richer color and

better hand. Many pert tricks appear in necklines and other detailing.

#### Dress Look

The sweater dress and knit coordinates that combine for a "dress" look are not neglected. These styles, while fairly basic, make no sacrifice of smartness. "Smooth Venture," a flat knit wool sheath is gently bloused above a leather belt. The waist has an elastic insert; a simple ribbed neckline allows maximum variety in accessories. In six colors, plus black, it retails for \$29.98.

The blouson line is noteworthy in a pair of two-piece knit dresses with tie belts, oval necklines and slightly eased skirts.

One of the dresses is in solid colors, the other a damask knit in heather tones.

A collection of cotton knit separates is found in the fall line for 1960. It includes tapered pants, slim skirts and pullover tops, some in solids and others in a lively and elaborate three-color print of floral character.

The line also includes a pair of wool jersey pullovers in an extensive color range.

## Knits Coordinated By Bobbie Brooks

Sweaters in the Bobbie Brooks spring and summer collection are designed to tie in with a wide range of woven costume components for mixing and matching. Lovely pastel shades of such colors as mint, pecan, lemon, blue and lilac make an excellent showing.

The composition line-up encompasses Orlon, Textalized (Ban-Lon), Helanca, cotton and wool. Dacron and cotton are utilized in the woven separates, which include an airy pastel plaid.

Styling in the fine gauge and bulky sweaters which constitute knit interest is generally of a crisp, tailored nature. While flat knits account for a good deal of importance, novelty stitch construction is given play in bulky cardigans.

#### Vest Variations

A four-button Perry Como type vest with deep V-neck is offered in Orlon, at \$3.75 wholesale. Green, pecan, white and lemon are color possibilities.

(Continued on Page 35)



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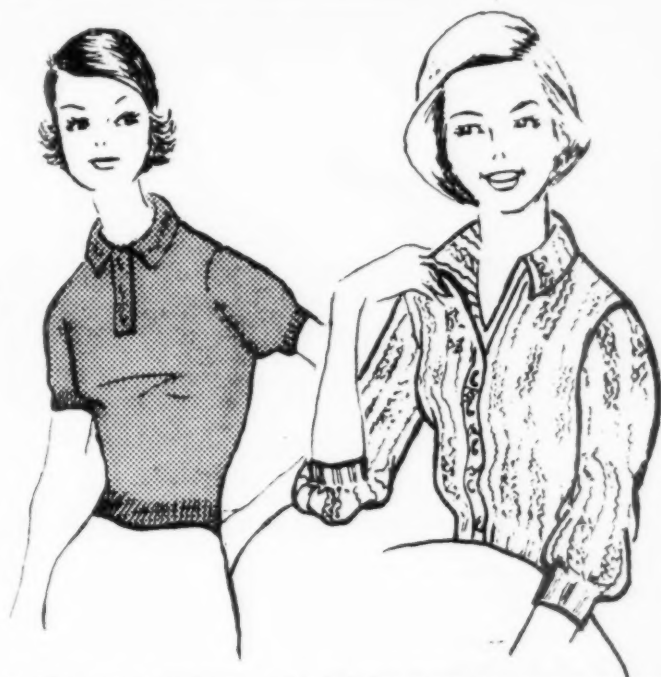
Bonte is ready to take care of all your wool yarn needs. They're famous for their tremendous variety of wools of all grades, textures and types — **multicolored heathers, superior wool-mohair blends, quarterbloods, and a new fine zephyr**. Bonte's bonus service **originates and confines** exclusive colors to major mills.



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Bobbie Brooks incorporates a full-fashioned Textralized sweater-shirt and a bulky Orlon cardigan in its intercoordinating spring-summer line.

Basic in the line is a three-button wool vest variation in a range of 15 colors, at \$30 a dozen.

Two short-sleeved Textralized sweaters are featured: A full-fashioned three-button sweater-shirt, at \$3, and a cardigan with novel squared tabs extending at collar sides.

Orlon is used to good advantage in a trio of bulkies. A smart open jacket at \$4.25 wholesale, is styled with squared off lines. Popcorn and rick rack stitch construction create texture interest in a collared V-neck cardigan, available in pecan, blue, lilac and white. A lacey stitch highlights another bulky cardigan. Both wholesale at \$4.75.

A short-sleeved collared cotton knit shirt, at \$2.50, has a mitered tab placket and comes in mint, white, lemon and orange. A sleeveless mock turtle-neck slipover, at the same price, is in a boucle textured Helanca.

### Good Response Reported To Knit Polo Promotion

SYRACUSE, N. Y.—A very successful response to its Washington's Birthday promotion of Buster Brown initialed cotton knit polos, merchandised in the company's downstairs budget floor, is reported by E. W. Edwards & Son.

Twenty different styles, ranging in price from \$1.19 for a

crew neck short-sleeved number in sizes four to 6X up to \$2.50 for a two-color cruising shirt with banded sleeves in sizes seven to 14, were illustrated in a full page Sunday newspaper ad.

Readers were invited to fill out a conspicuously placed mail-o-gram for any of the items described, stating the initial they desired. Customers visiting the store had the initial put on the mercerized Bebon cotton knit toppers while they waited.

Also included in the popular event were two knit beanies and a beret, each priced at \$1.

### Traffic Cited Gratifying In Cotton Knit Dresses

SYRACUSE, N. Y. — A strong promotion by E. W. Edwards & Son, titled "Beige a la Neige" and including three Salina Street window displays as well as a half page newspaper ad, called attention to two cotton knit dresses from the store's second floor Dress Circle.

Beige numbers by Lampl, at \$17.98, and Debby of California, at \$29.98, were featured in the event.

In spite of intermittent heavy snowstorms throughout the Central New York area, the week-long promotion was reported "more than gratifying" by company spokesmen.

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**CRESTS**  
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#### **PUBLICATION INFORMATION**

Issuance Date  
MAY 5th, 1960

Deadline for Space Reservations  
APRIL 1, 1960

Deadline for Copy (with proof)  
APRIL 5, 1960

Deadline for Copy (without proof)  
APRIL 8, 1960

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Every opportunity-conscious supplier will surely want to be represented in the '60 "YEARBOOK" because of its intense coverage, distinctive format, pertinent content, long life and inexpensive cost.

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These brief and bulky interpretations of the zipper front cardigan make notable use of richly sculptured texture. The V-neck model, at left, is in a raised diamond pattern. Double flap pockets appear on one side. The collared and contrast trimmed bulky is in a vertical shell treatment.

### Men's Wear

#### Revere Highlighting Color and Patterns

(Continued from Page 15)

sweater vest and long-or-short sleeved shirts. This combination is offered in 10 shades and there is a two-tone hound's tooth pattern bordering the cardigan.

#### Bulky Coordinates

A second set is a bulky combination of a six-button cardigan and pullovers, both of brushed Orlon. An allover design is worked in two contrasting colors. These sweaters combine various arrangements of V or crew necks and shawl collars. Colors are mingled so that they may be promoted with the company's line of flat goods. There are 10 basic shades for this set including brass, port wine, olive, black, light oxford and tan heather. The color design consists of broken or hyphenated stripes extending vertically.

Other brushed Orlon sweaters include mottled designs available in five tones with cross-over shawl collars on both cardigan and pullover styles. Napped and sheared lines come in allover interlock or interlock combined with pebble stitching or Raschel knit sleeves. Embroidery has also been used on bulky ski sweaters and zipper closures have been widely used for new fall cardigans.

#### Show Date Moved Up

PHILADELPHIA, Pa.—The dates of the Men's and Boys' Apparel Club show have been

moved up from June 26 to 29 to June 5 to 8 because fall lines are opening up earlier this year, Paul Brown, Gales-Mills, Inc., secretary, announced. The new dates will better meet the needs of most salesmen he said. The show is held at the Benjamin Franklin Hotel, here.

#### NAMSB Cites 6-Button Cardigan For Fall 1960

The fashion picture is clear for fall as far as cardigans are concerned, it is pointed out in a March report of members findings issued by the National Association of Men's Sportswear Buyers.

Six-button cardigan treatments are described as the primary styles, the report continues.

The higher closures are expected to completely replace the lower-button models with which stores started off the fall, 1959 season.

#### Item Business

NAMSB reports that sweater buying, as well as other sportswear categories, has become an item business which will result in more careful purchasing, looking at a wider number of lines and the selection of more items.

During this past season, terry-lined swim sets, supposedly on the decline, did very well and new volume in sets came from mix and match combinations. One-size trunks did well, according to the cruise reports, the NAMSB report explains.

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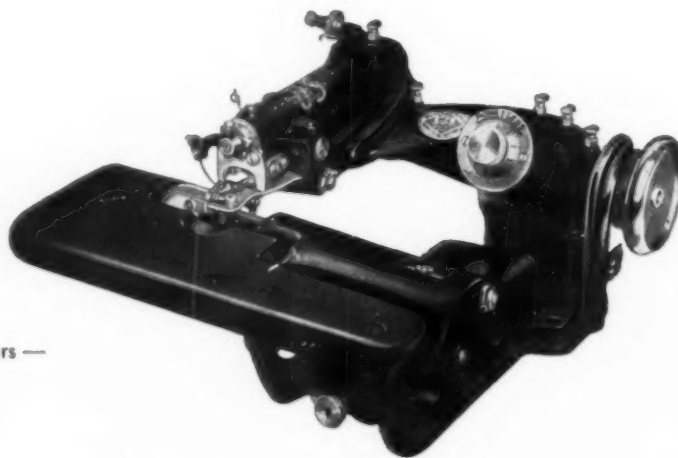
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## Mill News

### Reliance Manufacturing Acquires Marlboro Shirt

Reliance Manufacturing Company has acquired the inventories and business of Marlboro Shirt Company, Baltimore producer of men's and ladies' sportswear.

In making the announcement, Timothy R. Stearns, Reliance president, stated that the operations of Marlboro would continue under the direction of present management and personnel. Edgar Rosenbloom will continue as president.

The newly-acquired firm will be maintained as a separate and independent subsidiary of Reliance, to be known as Marlboro Shirt Company, Inc.

Mr. Stearns explained that Reliance, through this acquisition, was continuing its policy of expanding sales of higher priced apparel. Present plans call for the expansion of Marlboro and Lady Marlboro lines by the inclusion of other better quality apparel.

### Norlyn Knitting Formed To Produce Sweaters

PHILADELPHIA, Pa. — A new company, Norlyn Knitting Mills, has been formed in this area to manufacture men's, women's and children's sweaters. Abraham M. Kopeika is head of the firm.

The new firm has leased a modern, 9,000 square foot one-story air-conditioned building at 16 Warrick Ave., Glassboro, N. J. for a term of years, Frank G. Binswanger, Inc., the leasing agent, announced.

Norlyn Knitting is expected to begin operations shortly in the new plant. When in full production the firm is expected to employ about 100 persons.

### Brookshire Employee Awarded for Attendance

MANCHESTER, N. H. — David Thomas, an employee of Brookshire Knitting Mills, here, was awarded a \$1,000 U. S. Savings bond for ten years perfect attendance at his job at the plant. Mr. Thomas received his award from Saul O. Sidore, president, and Theodore M. Blum, executive vice president.

Brookshire's annual profit

sharing meeting was scheduled to be held at the Manchester Institute of Arts & Sciences on Saturday, March 12. A total of 602 employees received benefits under the company plan.

In addition to the \$1,000 bond awarded Mr. Thomas, 65 employees were presented bonds for perfect attendance of one to eight years. Twenty-four employees received watches or bonds as awards for more than ten years of service.

### Shelley Is Granted Time Extension To March 22

PHILADELPHIA, Pa. — Additional time, until March 22, has been granted by Referee Thomas J. Curtin for Shelley Knitting Mills, Inc., and Shelley Sportswear, Inc., to formulate a better Chapter XI offer than the one they submitted on February 19. At that time the firms offered unsecured creditors 12½ percent in cash on confirmation.

### Blume Knitwear Moves Showroom, Sales Offices

Blume Knitwear has moved its New York showroom and sales offices to 1407 Broadway, it was announced by Barnett Lerner, president. The new location affords an added 50 percent more showroom space.

Ben Kowal, executive vice president, Henry Lerner, vice president in charge of sales, and Fred Safran, sales manager, will have offices at the new site. The general offices, stock and shipping facilities will remain at 1372 Broadway, the firm's former showroom location.

### Carolace Embroidery Co. Moves To New Building

EDGEWATER, N.J. — Carolace Embroidery, producer of Schiffli Embroidery, is moving to its new building in this city. The new site is designed to accommodate greater and advanced production facilities.

In addition, the move provides expanded facilities for Carolace's medallion and motif departments. A new designing department with a staff of designers headed by Joseph Benfonte of Milan, Italy is also being incorporated. This is the company's third expansion program in eight years.

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MARKERS  
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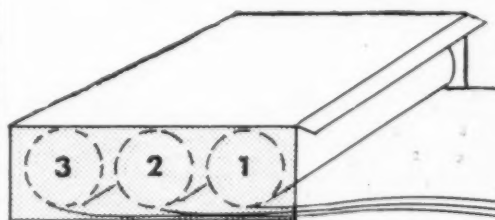
UP TO  
16  
MARKERS  
WITH A  
CARPENTER'S  
PENCIL

UP TO  
24  
MARKERS  
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TRACING  
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40  
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PERFORATING  
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To give your garments the soft "hand" they should have . . . you must WASH! And to provide real economy and satisfaction . . . you should wash in your own plant!

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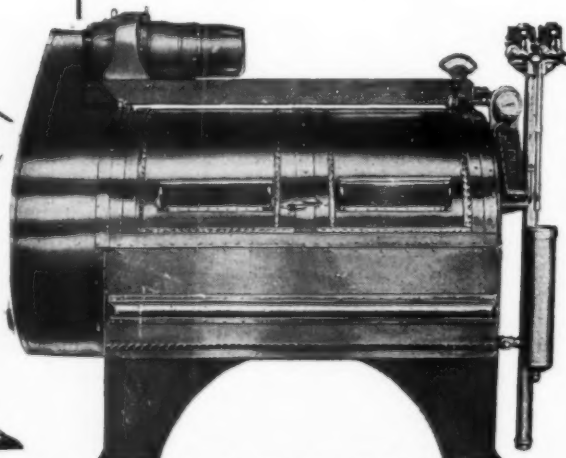
. . . Save time — usually lost in having samples washed away from your plant. You'll know in no time at all whether your stitches have to be loosened or tightened. This way you can prevent your knitting machines from standing idle for any length of time.

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## Mill News

### Brian Sportswear Now In New Expanded Quarters

Brian Sportswear has moved to new expanded quarters at 149 West 36 Street, New York City. The firm, previously known as Hit Sportswear, was located at 115 West 30 Street.

Ernest Zahler is president-secretary and Edwin Eisenstein is vice president-treasurer of the company, which manufactures men's Orlon, wool and lamb's wool and Orlon sweaters. Mr. Zahler is in charge of sales. Mr. Eisenstein heads production.

## Obituaries

### Bert Dutcher, President Of Jersild Knitting Corp.

APPLETON, Wis.—Funeral services were held at St. Mary's church, here, for Bert S. Dutcher, president of Jersild Knitting Corp., Neenah, Wis. Mr. Dutcher, who was 80, died on March 1, at his winter home in Palm Springs, Calif.

The deceased was also founder and president of Fox River

Valley Knitting Co., here. The firm is now headed by his son, John W. Dutcher.

## Fibers

### Enka Appoints Three To Marketing Posts

M. Boylan Carr, Claude S. Ramsey, Jr. and T. Redmond Thayer will head the three major operating areas of American Enka Corp's marketing division, it was announced by Philip B. Stull, the Enka President. The three new marketing positions are accountable to Dr. Jack L. Bitter, vice president in charge of marketing.

Mr. Carr has been appointed director of sales for textile rayon and nylon yarns. He will also be in charge of the district sales offices, here, and in Greensboro, N. C., Chattanooga, Tenn. and Providence, R. I.

Mr. Ramsey has been named director of market development, supervising merchandising and advertising programs; marketing technical and customer service activities; and the marketing research program.

Mr. Thayer has been appointed director of sales for tire and industrial yarns and rayon staple fiber. All three men will be located at Marketing Division headquarters in the company's administration building in Enka, N. C.

### Goodrich Names Sprock To Market Development

CLEVELAND, Ohio—Howard M. Sprock, Jr., has been appointed a market development representative for the B. F. Goodrich Chemical Company, here, it was announced by L. L. Shailer, manager of textile chemical sales.

Mr. Sprock joined Goodrich in 1959 and was formerly employed in the dyestuff division of Geigy Chemical Company. In his new post, his principal duties will be market development and technical service to textile firms in the Southeast.

Goodrich's textile chemical products include: Geon vinyl chloride resins and latices and vinyl acetate latex, Hycar acrylic and nitrile latices and Goodrite Carbopol hydrophilic polymers.

### DuPont Cites Demand Up For Fibers, Elastomers

WILMINGTON, Del. — In his annual stockholders report, Crawford H. Greenewalt, president of the Du Pont Company, pointed out that "increased demand occurred in practically all of the company's product lines, but was specially evident in sales of elastomers, fibers and plastics."

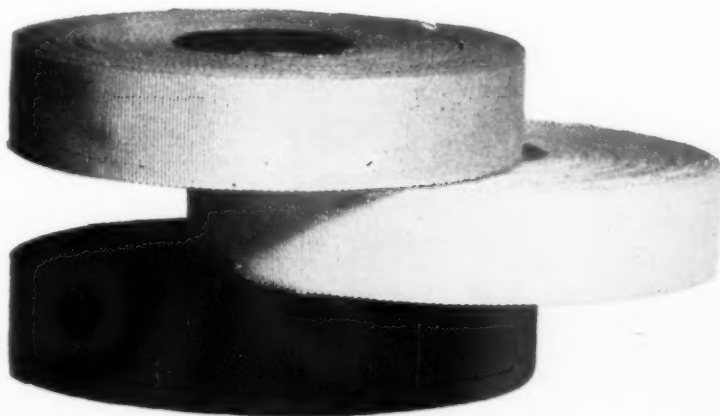
Du Pont's expansion plans in affiliates operating in Europe include the building of a new fiber plant for Orlon at Dordrecht in the Netherlands. It is currently under construction and is expected to begin operations in 1961.

## Personals

### Justin Israel A Father

A daughter, Diane Joy, was born to Justin Israel, vice president of Regal Knitwear, on February 25.

The baby, who was born at Mount Sinai Hospital, New York City, weighed seven pounds, one ounce at birth. This is the Israel's third child.



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## Wool

### Plan World-Wide Research Group

A world-wide research and product development organization for the wool industry, The International Wool Development Company, is currently being formed and will begin operations about July 1, it was announced by Max F. Schmitt, president of The Wool Bureau.

The new group will sponsor wool research and pass on the benefits thereof to mills, manufacturers and other segments of the wool industry. It is ultimately expected to operate in most of the 17 countries where the International Wool Secretariat now functions.

A non-profit company, it is being established by the Wool Boards which represent wool growers of Australia, New Zealand and South Africa. Final status is subject to approval by Wool Board executives who will meet in London in May.

In the United States, a division of the international organization, operating as a separate and independent corporate en-

tity, will take over the functions of the Wool Bureau's department of science and technology. Under the new set up, Dr. Gerald Laxer, department director, will head a much enlarged technical staff.

The Wool Bureau will concentrate on and expand its activities in promotion and public relations and will work closely with the new organization.

Chief functions of the development corporation will include the acquisition of inventions for new processes and finishes; patenting, developing and licensing these inventions; and providing a technical advisory service to wool mills and other aspects of the wool industry to encourage the adoption and marketing of the new techniques.

### U. S. Mohair Production In Top States Up 16%

Mohair production in the seven leading states in 1959 totaled 24,180,000 pounds, according to the Crop Reporting Board of the Department of Agriculture. The 1959 clip was 16 percent larger than the 20,855,000 pounds produced in 1958 and 62 percent larger, than the

10-year average of 14,883 pounds.

Texas, the leading mohair producing state, accounted for most of the increase. The increase in mohair in Texas and Missouri resulted from clipping a larger number of goats and a higher average weight of hair per goat clipped.

### Slightly Higher

Production in New Mexico and Arizona was slightly higher than a year earlier, due to a small increase in average weight of hair clipped per goat.

Mohair production in Utah was above a year earlier due to a larger number of goats clipped. In Oregon and California, it was below a year earlier due to a slight reduction in number of goats clipped.

### Wool Activity Increased On World-Wide Basis

(Continued from Page 1)

Yarn imports during 1959 totaled 5,167,000 pounds compared with 2,420,000 pounds during 1958. Almost half of these imports came from Japan, the remainder from Belgium, France, the United Kingdom, and West Germany.

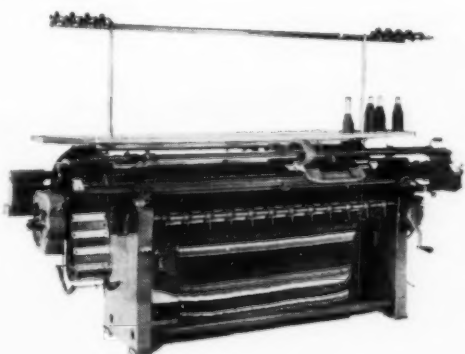
## Dyes And Chemicals Water Repellency Silicon Treatment

A new water-repellency treatment developed by USDA chemists for use on various cotton fabrics has proved efficient in laboratory tests, according to a report by the Agriculture Department. It is also effective on other fibers, such as wool.

The treatment is done with an alloy of two silicon compounds, tetravinyl silane and methyl hydrogen siloxane, and it does its job so well that a 2.5-percent addition of the alloy gives water repellency equal to that produced by a 3 to 5-percent addition of chemicals ordinarily used for this purpose. Scientists at the ARS Southern utilization division, New Orleans, developed the new treatment.

This high degree of efficiency is achieved without sealing the pores of the treated fabric, making it highly desirable for rainwear or other wearing apparel where air permeability as well as water repellency is desirable.

This property is vividly illustrated. (Continued on Page 45)



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The only single lock flat power machine with  
**71" NEEDLE BEDS**  
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Additional needle space for more economical production of trimmings and garments.

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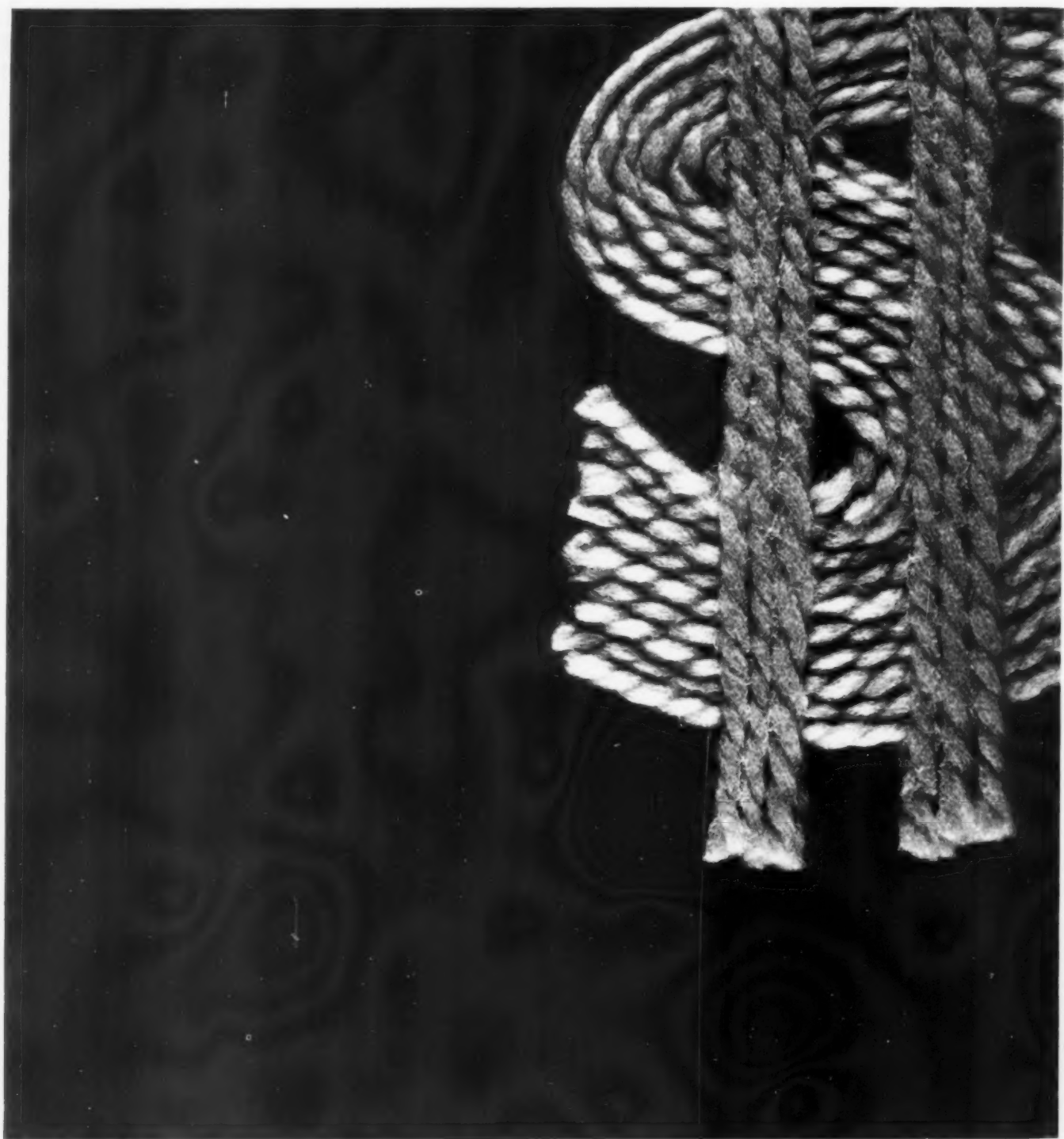
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strated by a laboratory test in which water was poured on a sample of treated cotton cheesecloth. The water remained on the cheesecloth for months without passing through the openings of the fabric, or wetting the threads. The treatment has also been used successfully on cotton broadcloth, 80-by-80 print cloth, and other lightweight cotton fabrics, as well as the heavier types commonly used in rainwear.

Silicons are extensively used in the textile industry as fabric softeners, and this silicon alloy produces a similar effect. The new treatment improves resistance to flex abrasion and increases the tear strength of fabric, although the breaking strength is reduced somewhat. The treatment has the added advantage of improving crease recovering of wrinkle-resistant fabrics.

The treatment can be applied from either an aqueous emulsion or an organic solvent, with equipment commonly used in textile finishing, and is compatible with treatments to impart other desirable properties, such as flame resistance and crease resistance.

## Sandoz Develops Reactive Dyestuff

Sandoz, Inc., is offering the first group of a new range of reactive dyestuffs, under the (R) Drimarene-Z name. They are concentrated products which have been specially developed for printing cotton and viscose filament and staple fiber.

It is claimed that with Drimarene-Z printing pastes, freshly prepared or partly used colors, can be stored for a considerable time without deterioration. It is also said that due to low substantivity the unfixed portion of dyestuff can be readily washed off the fiber.

The Drimarenes are claimed to possess little or no affinity for cellulosic fibers. They are also said to prevent the take up of loose dyestuff from the washing baths and to thus prevent the consequent danger of staining on the unprinted parts of the design. Drimarene-Z dyestuffs are said to possess good stability to steam and heat. They are fixed by short steaming or treatment in dry heat. They are also said to possess excellent reproducibility of shade.

It is claimed that in roller and screen printing the Drimarene-Z dyestuffs possess all the essential properties of reactive dyestuffs. They are said to form a stable chemical linkage with the fiber, which results in high wet fastness. It is supposed to be possible to print with the Drimarenes along side of dyestuffs of other classes.

The range of Drimarene dyestuffs includes Yellow Z-4GL; Yellow Z-3GL; Orange Z-G; Red Z-2B; Violet Z-RL; Navy Z-BL; Blue Z-RL; Blue S-RL; Turquoise Z-G; Gray Z-GL; and Black Z-BL. Drimarene Scarlet Z-G1 and Drimarene Red Z-R will be added to the line, on March 15.

## Geigy Offers Range Of Reactone Dyes

ARDSLEY, N.Y.—Reactone, a new line of highly concentrated reactive dyes, recently introduced by the Dyestuffs Division of Geigy Chemical Corporation, are available in a range of colors. The dyes are said to be particularly good for printing on cotton and regenerated cellulose.

The range of dyes includes the following colors: brilliant yellow

4GL 140 percent; orange G 125 percent; red 2B 170 percent; violet BL; blue RLD; turquoise blue FGL 160 percent; navy blue GRL; black RL.

Reactones are said to form a chemical linkage with the cellulose and the stable bond of dyestuff with fiber is said to ensure outstanding wet fastness. The dyes are supposed to dissolve very readily and prepared printing pastes are claimed to have outstanding stability, permitting storage for several weeks without danger of precipitation or decomposition.

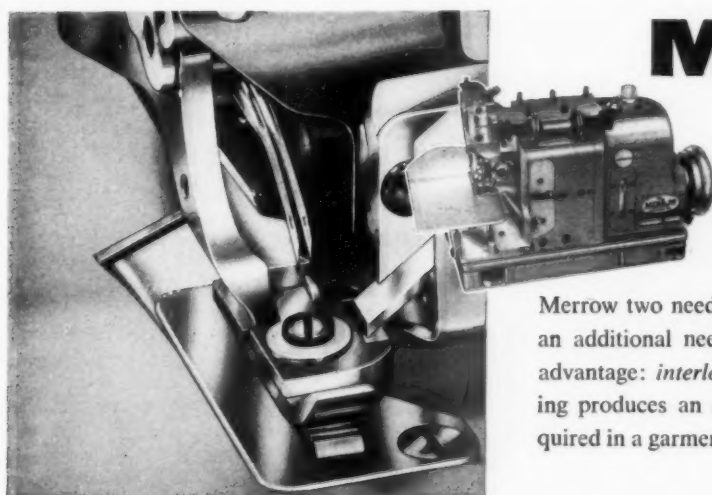
### No Affinity

They are said to have virtually no affinity for cellulose after fixation and removal of unfixed color is claimed to present no difficulty. The tendency to bleed is supposed to be negligible and grounds therefore remain clean.

Reactone dyes can be used in combinations by either screen or roller printing methods and are said to produce a very wide range of shades of all depths. Some are claimed to be especially suitable for full shades.

Reactones can be steamed or heat fixed. Fixation times are supposed to be extremely short and reproducibility good.

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## Dyes And Chemicals

### De Paul Co. Develops New Levelling Agent

The De Paul Chemical Co. has developed a new levelling agent, Depco Level 52, for basic dyes. The new agent is said to have the combined properties of both levelling and stripping.

In the event of shaded lots of Orlon or other acrylic fibers, the addition of Depco Level 52 is said to remove the dyestuff from the darker areas and cause it to be redeposited evenly. In cases where a lot has been dyed evenly, but has come up darker than the required shade, it is claimed that the new levelling agent will reduce the dye to the desired shade. It is also said to be effective when a lot must be re-dyed to a darker shade.

The use of Depco Level 52 is also said to eliminate the necessity of scouring, as it is not necessary to remove the retarder from the goods before re-dyeing.

Depco Level 52 is claimed to be able to strip the color in blends such as Orlon and mohair to the extent that it is possible to re-dye in a darker shade.

### AATCC To Hear Paper On Disperse Dyestuffs

Disperse dyestuffs will be discussed at the next meeting of the Metropolitan Section of the American Association of Textile Chemists and Colorists on March 18 at Kohler's Swiss Chalet, Rochelle Park, N. J.

Dr. Victor S. Salvin, head of the dyeing laboratory of Celanese Corporation of America, will present a paper relating structures of disperse dyes to their dyeing properties.

Dr. Salvin will cover the basic theory of dye application, the characterization of disperse dyes, the behavior of disperse dyes with respect to stability in the dye bath, dyeing rate, pile-on, effect of dyebath additives and the specificity of dyes for acetate and polyester fibers.

The presentation is aimed toward a basic understanding of recently introduced dispersed dyes necessary for application to newer fibers and blends. Examples and data will be given from original work on synthesis and properties of anthraquinone blues representing structure

which is gas fast on acetate and light fast on polyester fibers and on synthesis and properties of diphenyl amine yellows representing structures of high wash fastness on acetate with useful properties on polyester fibers.

### 3 Named To New Posts At Jefferson Chemical

HOUSTON, Tex. — Three men have been named to new posts in the research and development department of Jefferson Chemical Company, here, it was announced by Dr. R. F. McCleary, vice president.

They are: J. F. Cooper, formerly supervisor of the process development section in Austin, named assistant to the vice president for research and development; H. G. Mulbauer, previously senior research chemical engineer, appointed supervisor of the process development section; and L. P. Benthack, former senior research specialist, now supervisor of the newly created semi-works section in Austin.

### Heberlein Uses Eversan Textile Finishing Process

Heberlein & Co., Ag., Swiss nylon manufacturing and finishing plant, has signed an agreement with Ions Exchange & Chemical Corp. (I-X), here, for the use, in Switzerland, of Eversan, a treatment to keep textiles permanently antibacterial.

Heberlein will use Eversan to treat its own product, Helanca textured nylon, as well as cotton and other materials finished in its plant for distribution in Europe. Heberlein's finishing capacity is more than 100 million yards of textiles per year.

Eversan's antibacterial qualities are said to remain in the fabric after five half-hour boilings with soap and soda ash. It is claimed to be non-toxic, non-irritating, colorless and tasteless.

### Goodrich Offers Textile Wet Processing Booklet

CLEVELAND, Ohio—Products used in textile wet processing are featured in a new booklet published by B. F. Goodrich Chemical Company. Entitled "Time for a New Look at New Materials," the booklet outlines profit opportunities made possible by Goodrich product de-

(Continued on Page 49)

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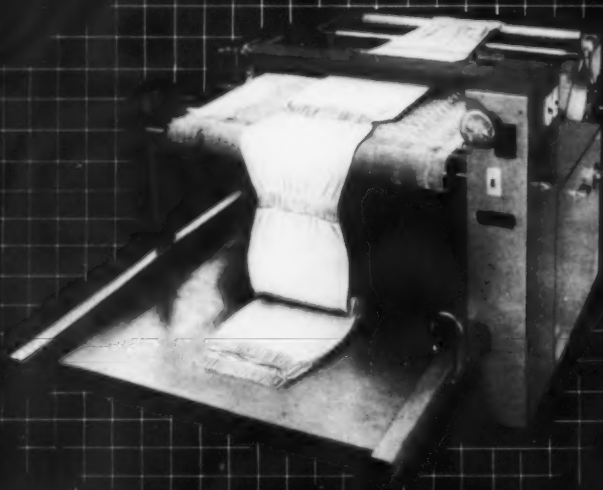
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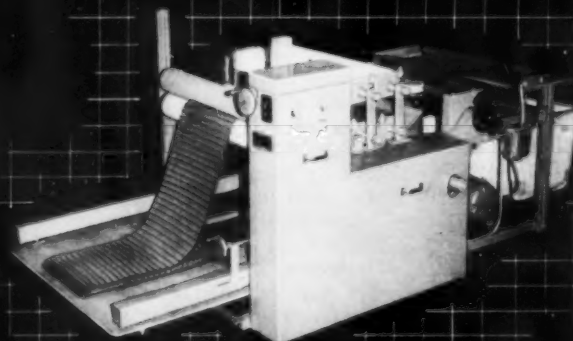
\* DuPont Acrylic Fiber

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For swimsuits, girdles and bulky knits.

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velopments.

Several new bulletins covering specific uses and properties of the company's chemical products for the textile industry are also available. The titles of these booklets are: After treatment with Hycar Latex for Crock Reduction; Veil Spraying—A New Approach to the Decorating of Textile Materials; and Stitchless Seams.

In addition, two previously issued bulletins have been revised. These are: Products for Textile Improvement and Survey of Supplemental Literature. All material is available from the company's Cleveland facilities.

### Printing Bulletin Offered By Industrial Chemicals

U. S. Industrial Chemicals Co. has published a booklet, entitled "Printing of Polyethylene," which incorporates the basic information pertaining to printing on both polyethylene film and molded containers.

Different methods of treating polyethylene such as chemical, flame and electronic are discussed in the first section. Some of the problems of such treating are also detailed, as well as the effects of treater variables on ink adhesion. Section two deals with known methods for printing polyethylene.

An explanation of the methods used to test ink performance and a glossary giving definitions for many commonly used printing terms are also included in the publication.

### Equipment News

#### Chwatt Bros. Acquires Orlon 21 Dye Machine

Chwatt Bros. has purchased and installed a 600-pound pressure dyeing machine for the dyeing of Orlon 21. The firm has also purchased a back winder to enable winding from tube to cone.

#### Richard Newell Elected Leesona Vice President

PROVIDENCE, R.I.—Richard P. Newell has been elected vice president, for export sales, of Leesona Corporation, Robert Leesona, president, announced.

He succeeds J. Alan Nasmith who is now in England as a man-

aging director of Leesona Holt Limited, the European subsidiary of Leesona Corporation.

Mr. Newell joined Leesona on January 1. He formerly was sales manager of the international division of Saco-Lowell Shops. He has also been associated with the Draper Corporation in a sales capacity in its Mexico and Paris offices.

### ATMA Honors Top Student Essayists

HOPEDALE, Mass. — The American Textile Machinery Association will offer again this year an extra prize to each first award winner and to the grand prize winner of the Textile Student Essay Contest sponsored by America's Textile Reporter.

Each winning student will receive an all-expense paid trip to the American Textile Machinery Exhibition—International, to be held in Atlantic City, May 23 to 27, in addition to the cash awards given by the publication.

The announcement was made jointly by W. K. Child, president of ATMA and vice-president of Draper Corporation, and J. H. Bolton, Jr., chairman, ATMA Exhibition Committee, who is vice-president of Whitin Machine Works.

The ATMA has designated May 26 as Textile Career Day in Atlantic City. A feature of the day will be a luncheon given by the association in honor of the contest winners.

The eight textile schools participating in the contest are: A. French Textile School of Georgia Institute of Technology; Philadelphia Textile Institute; Alabama Polytechnic Institute; School of Textile Technology; Clemson School of Textiles of Clemson Agricultural College; Lowell Textile Institute; North Carolina State College, School of Textiles; Texas Technological College, Textile Engineering Dept.; Bradford Durfee Technical Institute.

### Speizman To Distribute For National Industrial

Speizman Knitting Machine Corp., Charlotte, N. C., has been appointed the exclusive distributor for National Industrial Machinery Corporation, New York, in the United States and Canada, including Puerto

(Continued on Page 51)

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Some of the most popular STOLL Machines for the American market for fancy collars and trimmings are:

**TYPE AJUM**—Double jacquard and transfer machine.

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## Equipment News

### Operation Revise By Saco-Lowell

BOSTON, Mass. — Saco-Lowell Shops has reorganized and diversified its operations to overcome the cyclical fluctuations in textile machinery sales and to establish improved manufacturing facilities nearer customer areas. The method by which the textile machinery firm achieved these objectives was described by Thomas J. Ault, Saco-Lowell president in separate talks before Robert Morris Associates and the Harvard Business School Association of Boston.

Mr. Ault pointed out that since 95 percent of the cotton mills were now located in the South, creating a need for textile machinery operations to be located in the Carolinas, the center of demand for capital equipment for textile mills.

#### Previously in North

He explained that 1½ years ago most of Saco-Lowell's textile production was located in the North and carried on in 1½

million square feet of old multi-stories buildings, some of which were over 100 years old and did not lend themselves to efficient manufacturing operation.

Today, Mr. Ault continued, the firm's textile machinery division has been consolidated into easily accessible locations in North and South Carolina, and, in modern plants built to the company's specifications. In addition, a new Research and Development Center has been established at Clemson, S.C., where facilities of Clemson College and the U.S. Cotton Testing Laboratories are available.

During the period of realignment, Mr. Ault said, a number of new products were placed on the textile market. These developments and others not previously shown will be displayed by Saco-Lowell at the American Textile Machinery Exhibition-International in Atlantic City, May 23 to 27.

### Fidelity Machine Offers Relative Humidity Chart

PHILADELPHIA, Pa.—The Fidelity Machine Company is offering a chart compiled on a stiff card to help measure the

relative humidity in hosiery mills. This chart is to be used in conjunction with the wet and dry thermometer method of determining relative humidity.

### Speizman To Distribute For National Industrial

(Continued from Page 49)

Rico, Hawaii and Alaska.

J. N. Bogoff, president of National Industrial, made the announcement. The company serves as importer of Mauser Industrial Sewing Machines, manufactured by Industrie-Werke, of Karlsruhe, Germany, and Marco Embroidery Machines, made by Markscheffelt & Co., Hamburg.

### Requests Extension Of Commercial Rent Control

(Continued from Page 1)

perse. Removal now of rent controls would accentuate present difficulties and precipitate new dislocations instead of extending the opportunity to make better adjustments and permitting the substantial retention of the garment industry in New York City."

## Association News

### NKOA Tying-In With Mother's Day Contest

The National Knitted Outerwear Association is among the trade groups sponsoring a Mother's Day Window display contest in cooperation with the National Retail Merchants Association.

A first prize of \$250 will be awarded. Second through fifth place awards range from \$150 to \$50. To be eligible to enter the contest windows must feature sweaters, swimwear, hosiery, negligees or lingerie.

### Cleveland District

(Continued from Page 1)

N. Gross Co.; and David Reinthal, Bamberger-Reinthal.

Also elected to office are: Adolph Haber, Standard Knitting Mills, secretary; Norman Faigus, Excelsior Knitting Mills, treasurer; and Joseph Jones, Phoenix Dye Works, assistant treasurer.

Manny Landers, National Yarn Co., has been named program chairman for the coming year.

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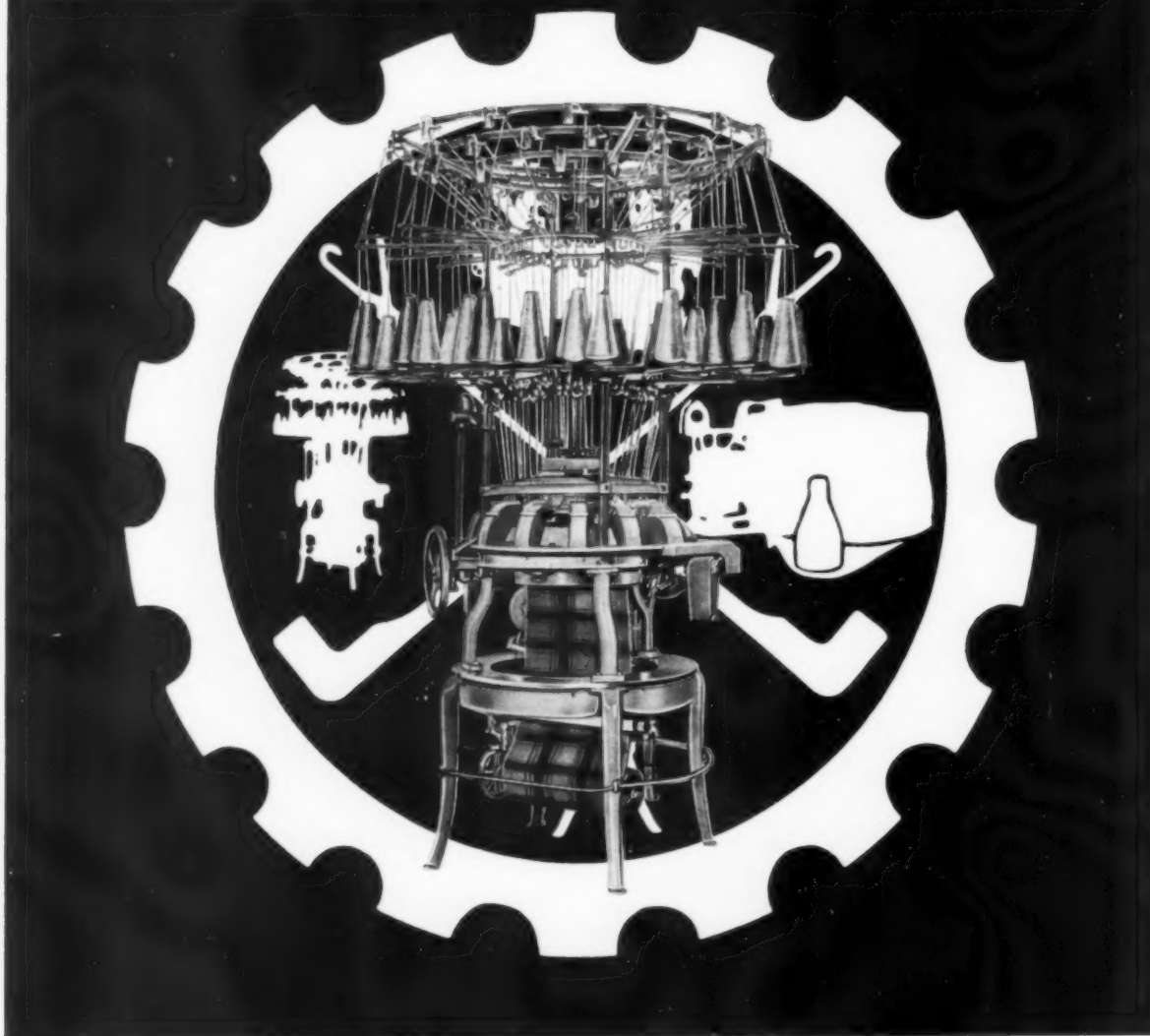
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## Zippers

### Talon Inc. Introduces New Synthetic Coil Zipper

The metallic zipper may well be headed for obsolescence, if a new development by Talon Inc. proves successful in the apparel trades. The innovation, called Zephyr, and designed to take the metallic look out of ladies' clothing, is made of a nylon coil grip which is said to completely eliminate the metal teeth of the conventional zipper.

The new zipper will first be introduced into ladies' woven suits and dresses. It will then be applied in children's and men's wear. As yet, it has not been used in sweaters, swimwear or knits.

The Zephyr is said to be small, flexible and lightweight. It is also claimed to hold up well under harsh wearing and laundering tests. The inherent design features of the new zipper are said to make it snag proof. However, if the fastener should snag, a built in device is supposed to correct the problem without damage to the fabric or the fastener itself.



Vertical muted stripes pattern this Continental shirt with solid color collar and placket.

with male shoppers in the downtown men's wear store of Martin Jacobi.

One model is featured at \$3.95 retail and has a four-button trim on the shoulder, a pocket on the sleeve and side vents. This wash-and-wear number is offered in a variety of patterns and solid colors.

## Trade Education

### PTI Plans Program To Honor Indian Students

PHILADELPHIA, Pa. — A weekend of activities honoring the Indian students at the Philadelphia Textile Institute has been scheduled for May 6, 7 and 8th, under sponsorship of the PTI Women's Association, Mrs. Ingram Bergman, chairman of the India Festival Committee, announced.

There will be a program of songs, dances and costume displays native to India, on Friday in which the 22 Indian students currently at PTI will participate. Films depicting Indian culture, and a live exhibition of Indian games are scheduled on Saturday, as well as a cricket match between the PTI cricket team, made up chiefly of Indian students, and Cornell.

## Merchandising

### Men's Boat Necks Get Strong Retail Response

BUFFALO, N.Y. — A boat neck pullover with three-quarter sleeves is reported making a hit

## Spring Sweater Sales Increasing

Spring sweater business is beginning to assert itself in leading stores across the country but the selling pace is not expected to hit a peak until Easter buying gets underway in earnest.

Department stores and specialty stores which have been promoting their new spring sweater collections in recent weeks report fairly good consumer interest and action.

Merchandise is reported arriving from knitting mills on schedule and retailers will be able to peak their spring stocks as planned.

### Fifty Percent Increase

With a break from the weather, some retailers expect they will be able to show larger than 50 percent increase in sales over 1959.

In presenting their new spring sweater styles, the big stores are using newspaper advertising, window display, point of sales display, fashion shows, informal modeling, direct mail,

(Continued on Next Page)

IN  
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DARK?

-about FUR BLENDS

NOW Phoenix has developed an exclusive process for PACKAGE DYEING of fur blends, lamb's wool, cashmere, and zephyr yarns! Sweater manufacturers are no longer faced with costly winding charges and waste—yarn is delivered on cones. At Phoenix, there is no color worry—as compared with skein dyed yarn, you get greater evenness and comparable hand. Greater mobility of manufacture—lot sizes run up to 1,000 lb. kettles.

Phoenix's central locations—Chicago and Cleveland—mean quick delivery to the East, Mid West and West Coast. The very latest mechanical and laboratory facilities, coupled with high volume capacity, bring you the best dyeing service possible. The 63-year Phoenix reputation for quality, service and technical achievement speaks for itself! For PACKAGE DYEING of fur blends at its best—CALL US TODAY! We are at your service in New York at BEekman 3-4432.

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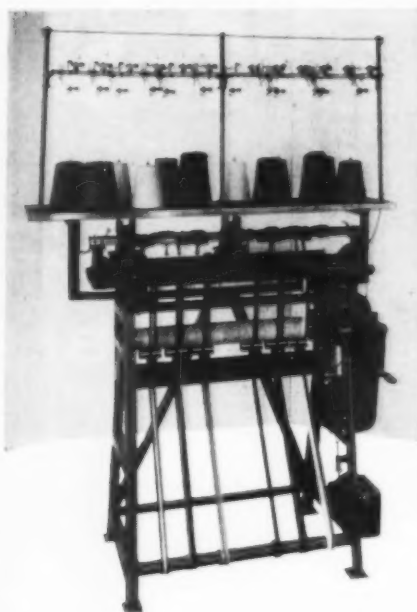
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Flat "V" Bed Border Machines



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1. Model "SFS" has two double system knitting heads and two 10 inch needle bed sections.
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3. Available in 6 to 14 cut inclusive.
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A mock cardigan effect is achieved in the scoop neck sleeveless number by Maille de France with white satin binding, shown at London exhibit.



Short sleeves and a horseshoe shaped neckline characterize the Maille de France slipover of nil lisle jersey, part of the French display in London.

TV spots and other media. Ad budgets for sweaters are at least as large as a year ago.

Retailers are putting strong emphasis on fiber content, washability, softness, eye - appeal, style and color in going after spring sweater sales. New spring shades are being featured both alone and in coordination with other spring ready to wear.

Orlons, fur blends, Ban-Lons and cotton knits are expected to receive good play.

## Joel Israel Joins Regal

Julius D. Israel, president of Regal Knitwear Co., Inc., has announced that his son, Joel L., has joined the company. Joel Israel is a graduate of Syracuse University and has worked with the Service Bureau Corporation of New York and later with Berkeley Homes, Miami, Fla. He was president of Berkeley Manor Mutual Homes.

## Children's Wear

### Babyknit Showing Napped - Sheared Fall Treatments

Napped and sheared cardigans, pullovers and novelty dressmakers are highlighted in the Babyknit Company, Inc., fall collection. Bulky pullovers and cardigans for both girls and boys' are also important.

Gold, camel, loden and olive are the predominating colors in the boys' line. The lapped boat neckline is an important style feature, second only to the shawl collar.

An important napped and sheared number in the girls collection has a scoop neckline with contrast band around the neckline and a tab featuring three-

(Continued on Next Page)

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button trim in the front. This number wholesales at \$2.50 per dozen in sizes three to 6X and at \$30 per dozen in sizes seven to 14.

#### Plush Classics

The napped and sheared classics are of extreme importance in the line. They are available in a wide range of colors. The pullover wholesales for \$22.50 and the cardigan for \$30 per dozen in sizes three to 6X.

A flat knit Orlon cardigan in girls' sizes seven to 14 range features a shawl collar. A white stripe decorates the collar edges. This six-button number wholesales at \$45 per dozen.

One bulky Orlon cardigan features a novelty rib stitch body and popcorn stitch collar. This seven button number is offered in white, in girls' sizes seven to 14, at \$36 per dozen wholesale.

In the boys' collection, a convertible collared cardigan has a three-tone argyle pattern around the neckline and collar edges. The body of the sweater is in a novelty rib stitch. It has five metallic buttons in the front. The inside of this Orlon number is brushed for added warmth. The sweater is offered in blue

### Sweater Fashions From Abroad

## Boys' Models From Abroad Dramatize Novel, But Trim, Details



Far left: Zip front cardigan with buttoned-tab treatment at neckline, sleeves and cuffs. Left: Frontier-look fringe and cross stitch trims V-neck pullover. Above: Pleat effect at sides decorates crew neck cardigan for short pants set.

and camel and wholesales for \$22.50 per dozen.

One shawl collared cardigan, also in Orlon, has ribbed body

and sleeves. An unusual zig zag stitch at the shoulders and around the front and back at the shoulder level is a highlight of

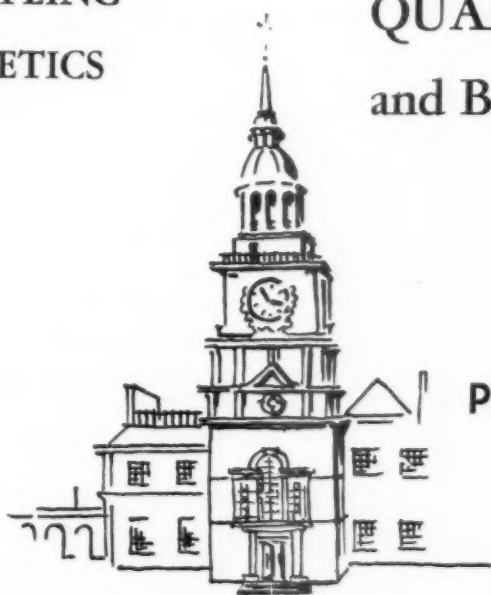
the number, which wholesales for \$30 per dozen. A contrasting color striped trim decorates the edges of the shawl collar.

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### Knitwear News From Abroad

## New Yarn And Fabric Developments Exhibited At British Nylon Fair

LONDON, England — Visitors from the knitwear industry found much to interest them at this year's British Nylon Fair held here at the Albert Hall. The exhibition, organized annually by British Nylon Spinners Ltd. to show to the trade advances in nylon development, was chosen by many British throwsters and manufacturers to reveal their latest progress. This year's fair was described as containing the most varied collection of nylon clothing, fabrics and household textiles ever assembled under one roof.

As far as knitwear was concerned, fabrics shown ranged from smooth-finish, soft jerseys for dresswear and suiting fabrics in rib and herringbone constructions to fashionable chunky yet light sweaters. Nylon jersey, most trade authorities said, has excellent washing qualities and is fluid enough to drape in intricate folds.

Turquoise, pink, willow leaf, navy and white are the colors forecast as being popular this summer for knitwear and were representative of the pastel shades most commonly seen at the fair. Over 40 models displayed a collection of knitwear in four-time daily showings held during the duration of the exhibition. Some of the garments shown were styled by the Fashion Group of London, others were by four well-known European designers.

A lively marketing idea by McCaul Knitwear consisted of "Match-box Separates," a range of matching sweaters and skirts.

Each set was designed to combine the practical advantages of a sweater and skirt outfit with the sleek, finished look of a dress. They are sold in novel "match-box" packs which give extra sales appeal and which the customer uses to carry home her purchase. The same company also exhibited a range of warm, chunky but surprisingly light knit jackets specifically designed to catch the style and weight-conscious holiday trade.

Courtolon, the false-twist nylon yarn produced by the Courtaulds Ltd. process, is used in knitted blazers and slacks shown by Walker Reid Ltd. Said to have been styled with the college girl in mind, this outfit was soft, warm and easy to wash.

I. & R. Morley, Ltd., intends to make a forceful appeal to the British teenage market with a big range of nylon sweaters, twin-sets and long line cardigans promoted as Golfers. Calling these teenagers the "newly rich," Morley has set out to catch their interest with a long, loose silhouette. The styles emphasize the young look and, particularly in the Golfers, fit low over the hips. Colors in the range are clear and gay to blend with summer frocks.

### Stabilized Yarns

One of the things to interest knitter in this show was how the stabilized yarns such as Agilon D, Frostex D, Kirklon Super Bulk, Saaba types and a large number of others, have rapidly progressed from the experimental stage and are now in

(Continued on Next Page)

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growing commercial use.

G. H. Heath & Co. Ltd. has developed a particularly interesting yarn of this type which is being promoted as Heatherdine. This is a bulked nylon filament yarn in which broken filaments appear on the surface of the yarn. Apparently the yarn is produced in two deniers at present; on 800 denier which is said to correspond roughly to 2/16s worsted yarn, and the 1200 denier corresponding to a 2/12s worsted yarn. The processors claim that Heatherdine gives exceptional warmth, strength, constant recoverability, minimum pilling and easy wash characteristics.

William Frost & Sons Ltd. showed knitwear from their nylon yarns produced on medium gauge RTR and interlock machines which drew a great deal of attention. Lumber coats with an unusual peach-bloom texture were featured in this range, together with jumpers, sweaters and long-sleeved jackets, all showing surprisingly even dyeing and softness. The same company also showed short-sleeved open-neck sweater-shirts in nylon which are expected to ac-



Ribbed nylon V-necked pullover is featured over George Walton & Sons Ltd. nylon leotards. The sweater, by Walter Reid, Ltd., has raglan sleeve setting. Frymann & Fletcher's chunky snailshell textured nylon fabric is used in the sleeveless sheath.

count for heavy sales this year. Another new development was a featherlight, completely opaque warp knitted fabric, soft and supple, for which a special Frostex yarn had been used.

#### Nylon Novelties

One company of throwsters showed a core-spun yarn with a bulked nylon core and a fine



wool sheath. Yet another interesting exhibit was a simulated loop mohair fabric in nylon shown by Carrington & Dewhurst Ltd. This company has also successfully introduced Taslan into knitwear.

British Depa-Crepes Ltd. showed an interesting variety of Ban-Lon dress fabrics printed

with attractive and colorful designs. Astraka featured a car coat in a knitted simulated suede fabric which, it is claimed, knits firmly, tailors well, and gives plenty of body. Main selling point for this fabric is that it can be safely washed and will not rub into shiny patches. Marks can be easily rubbed off.

A novelty nylon fabric with a rigid construction made possible by a straw-like rayon yarn was shown by Frymann & Fletcher Ltd.

At this exhibition, where all fabrics and yarns were B.N.S. nylon, the two new names for this company's nylon were used exclusively and exhibits were called either Bri-Lon or Bri-Nylon.

### French Knitted Fashion Trends Shown In London

LONDON, England—A rare opportunity to study French knitwear fashion trends was offered to the British trade recently when an association representing the French hosiery and knitwear industry held a fashion display at a well-known restaurant, here.

(Continued on Next Page)

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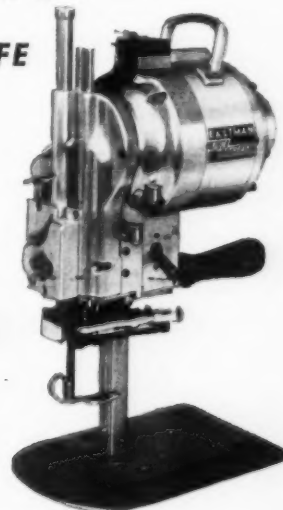
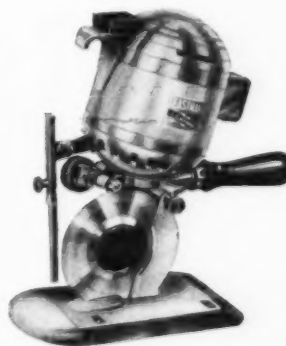
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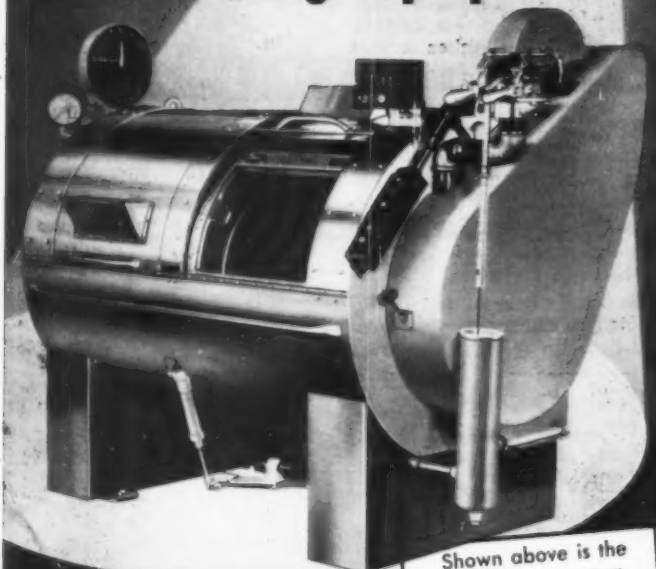


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The styles modeled came from all branches of the French industry. Outerwear, particularly for women, was well-represented. Interest lay in the frequent use of bulky U-shaped necklines—and in the evidence of the widespread acceptance of jersey as a fashionable fabric among the French knitters.

Highlights of the show included Garnier Luneau's glittering lounging trousers in gold Helanca stretch nylon and Luxrex, worn with a V-necked, waisted sweater in purple. A draped decollete neckline was featured in a jersey ensemble, with waterlily print, by Tricosa. Maille de France emphasized the effectively simple lines of a mock cardigan outfit, in turquoise, with white satin binding.

### Israel Knitters Form Joint Export Firm

TEL AVIV, Israel — Eight leading Israeli knitwear manufacturers have decided to form a joint export company which will launch a drive in the United States to secure more outlets under a combined series of models, a sole brand, one representation and unified prices.

The firms are currently getting ready for a series of 24 shows to demonstrate their newest creations in Germany, Holland, Switzerland, Belgium, England and Greece.

The industry aims this year at doubling its exports, which in 1959 approximated \$900,000. The pooling of export facilities has been requested by the Ministry of Commerce and Industry with a view to a greater efficiency and larger sales. Up to now, each knitwear company has been carrying out individual exports with the assist-

ance of U.S.-based sales agents.

Initial plans called for expansion of the joint export company's activities to all foreign markets, mainly in Europe and South Africa, should the experimental drive succeed in the United States.

### Man-Made Fibers Predominate At British Knit Show

By F. C. LIVINGSTONE

LONDON, England — Three fiber producers, DuPont, Chemstrand and British Nylon Spinners practically swamped the Third Hosiery and Knitwear Exhibition held here in early March.

Occupying a considerably larger exhibition hall—the New Horticultural Hall in the center of London — the various knitwear makers were able to display their products to much better advantage than in previous years, while ample space was also available in the exhibition theater for the twice-daily fashion parades. A breakdown of the items will give a reasonable idea of the range of goods on display at the various stands: there were 87 individual items in the Knitted Separates section, 15 in the Swimwear, Hosiery and Underwear part and 15 in the Knitted Dresses, Suits and Two-Pieces section, while two companies contributed knitted headwear to the various main displays as required.

The overwhelming predominance of man-made fibers in this show was made plain by Gerald Mansell, secretary of the Hosiery and Knitwear Export Group, who was also organizing secretary for the exhibition, when

(Continued on Page 66)

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## Ladies' And Children's

# Else Fisher Takes Practical View Of Knitwear And Swimwear Design

By DORIS DIAMOND

Equipped with a firm conviction in the need to couple function and fashion in styling and with an excellent background as a designer in Europe and the United States, Else Fisher has been styling knits and swimwear for the American market since 1957.

Mrs. Fisher, who maintains her studio at 105 East 63 Street in New York City, works as a free lance designer of swimwear and knitwear in the ladies' and children's fields. In the knit area, she concentrates on dresses, sweaters and ensembles. She designs both high style and volume apparel and believes in introducing elements of high style in volume goods.

The attractive Viennese-born designer sees her function as a supplement to the activities of stylists employed full-time by swim suit and knitwear resources. She executes her ideas in sketches which become the exclusive property of the manu-

facturers who buy them. In addition, Mrs. Fisher has the facilities to have some of the style features carried out in actual garments.

### Fabric First Step

In working on swimwear, Mrs. Fisher likes to look at the fabrics first and see how they adapt to styling. She particularly favors knits and woven cottons for children and elasticized suits for ladies and women.

In her opinion, the first requirement a swim suit must meet is to be practical. It must as well be attractive and lovely, she maintains.

"This styling approach should be taken in all forms of apparel and certainly in knitwear," Mrs. Fisher said. "I believe that knits should have basically good lines with attractive dressmaker touches. I see soft necklines, for example, as very important and I like to incorporate contrasting stitch treatments into a garment

for an unusual, but uncluttered, effect.

### Color Interest

"I love muted colors for sweaters and other knitwear," she continued. "In swimwear, clear shades should always be used to maintain that clean, crisp look which is so attractive on the beach or at a pool."

Mrs. Fisher strongly endorses knitted dresses and ensembles for travel or wear through the day into late afternoon and evening. She believes that knits wear well and comfortably. Her feeling is that the knitted dress plus jacket costume makes an excellent through the day outfit. Minus the jacket, Mrs. Fisher noted, the basic knit is appropriate for dress up wear.

She holds firm in the importance of knitted costumes and dresses in enhancing the appearance of the amply proportioned woman.

### For 'Big' Woman

"I think that it is a wonderful thing that the big woman has discovered knit apparel," Mrs. Fisher emphasized. "With the proper foundation garment, knits look well on her. In fact, they tend to mold to the figure with



ELSE FISHER

the grace of a custom made costume."

Mrs. Fisher, who came to the United States some seven years ago, recalls that even as a child she was interested in the styles developed at her father's knitting mill in Vienna, Austria. Her interest developed further while she was in Switzerland and reached its fruition during a 13 year stay in Israel, from 1939 to 1952.

During the war years, Mrs. Fisher recalls, Israel was a great fashion center. She herself (Continued on Next Page)

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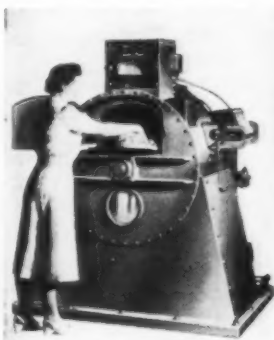


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participated as a free lance designer in a full scope of designing activities, including a wide range of knitwear.

Upon coming to this country, Mrs. Fisher entered the fashion field with a sketch service and, after that, spent 3½ years working with designers. Some two years ago she got started in swimwear design and subsequently broadened her work to encompass sweaters and one-two- and three-piece dresses and ensembles.

Mrs. Fisher takes annual trips to the fashion centers of Europe, stopping off in Italy, France, Switzerland, Austria and England. She also makes regular business trips to the West Coast, where she meets with manufacturers to discuss styling ideas.

### Miss Leahy Named To Buy Juniors' Sweaters

PHILADELPHIA, Pa.—Marie Leahy, former branch store divisional merchandise manager of sportswear for Strawbridge & Clothier, here, has been named buyer of junior miss sportswear, including sweaters.

### Melville Knitwear Moves Office And Shipping Site

Melville Knitwear, manufacturer of ladies' sweaters, has moved its executive offices, shipping and warehouse facilities to 25 Buena Vista Avenue, Lawrence, L. I.

Announcement was made by Elliot and Melville Haupt and Irving Eisenstein, the firm's principals. The showroom is now located at 1372 Broadway. The entire operation was previously located at 255 West 36 Street, N.Y.C.

### Munsingwear 1959 Sales At Peak, Up 16 Percent

MINNEAPOLIS, Minn.—Sales of Munsingwear, Inc., reached a new high of \$43,794,168 last year, a gain of more than 16 percent over 1958, the company announced in its annual report. Earnings of \$1,608,092, or \$4.03 per share, compared with \$1,356,221, or \$3.41 per share, for 1958.

G. D. McConnell, president of the company, which has its headquarters here, told stock-

(Continued on Page 63)

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## Men's Wear

### Color, Stitch And Style Themes In Dee Line Have Continental Flair

Continental color, stitch and style themes provide a point of departure for men's wool sweaters in the Dee Sportswear collection for fall. German-made equipment is used to achieve a variety of novel constructions. Five basic colors get major attention; white, olive, gold, chestnut and Maltese blue.

In addition to the Italian influenced pullovers and a range of sweater-shirts and cardigans, Dee offers a six-button alpaca cardigan. The latter, at \$17.95, retail, comes in nut brown, gray heather, gold and olive.

Multicolor tiles are knit into the front of a V-neck pullover and five-button V-neck cardigan, retailing at \$18.95 and \$22.95, respectively. Another such duo, at the same prices, has raised squares of chenille-type stitching patterning the front. Tone-on-tone coloring is key-noted.

#### Contrast In Color

A five-button cardigan with flat front and ribbed sleeves and back is decorated with two knit-in quartets of large black and white squares, one set at top right, the other at bottom left. The sweater retails at \$22.95.

Raised pineapple type paneling appears above a ribbed body to suggest a yoke in a pullover, at \$15.95, with modified boat neckline. White trim occurs at the hem and above the sleeve. Another bulky pullover, at \$13.95, has a lapped boat neck. The front features an exciting zig zag pattern bordered by ribbing.

Oversized self-color boxes alternating ribbed and rick rack stitches generate interest on a pullover with lapped V-neck, at \$15.95, retail. A fancy ribbed convertible collar occurs on a horizontally self-patterned sweater, at the same price.

A allover lacy look is created in a number, at \$15.95, with shawl collar inset in a ribbed V-neck. The same wavy stitch appears in a five-button shawl collared cardigan, retailing at a dollar more. Other shawl collared cardigans feature an over-size checkerboard motif or a linear plaid pattern.

Aside from a collar and three-button placket model in alpaca, zephyr makes an important appearance in sweater-shirts. The alpaca number, retailing at \$12.95, boasts ribbed hem and sleeves. There are four color possibilities.

Generally, Dee carries out its highly dramatic texture effects in this facet of the collection, which pinpoints the \$10.95 retail price level, aside from an open front number at \$11.95.

A shirt with interesting one-button closure and fancy collar is done in a lacy stitch with self-boxes at intervals. Fashion collar and placket styling sets off a contrast-trimmed sweater-shirt with squared-off self-bib at front, in a "somewhat lacy stitch."

Vertically set raised self-novelty stitching in two stripe widths serves well as the basis for a shirt with collar and placket and contrast tipping and its cardigan front counterpart.



Big, bold and brawny sweaters are being promoted by Robert Bruce, Inc., for fall as part of the "BB-Look." New innovations in bulky Orlon and wool cardigans and pullovers with shawl collars, cross over and buttoned boat necks and zipper treatments were introduced by the firm to the press, department store buyers and salesmen at a national sales meeting in Cherry Hill Inn, Camden, N. J. Nylon pile sweaters were also featured in the fashion show staged by Leonard Schorr, executive vice president of Wermen & Schoor, Inc.



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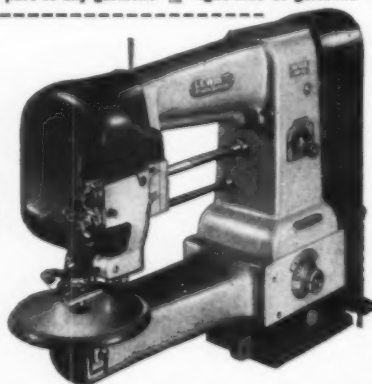
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## Dow Presents New Rovana Micro - Tape

Rovana saran micro-tape, latest commercial addition to the Dow Chemical Company's textile fibers line was introduced before the monthly meeting of the American Association for Textile Technology on March 2 at the Hotel Vanderbilt. Nelson W. Abernethy, Dow's assistant textile research laboratory director, introduced the new product.

Lightweight fabrics made of Rovana have three to four times the tear strength of comparable cotton fabrics using yarn of about the same tenacity and denier, Mr. Abernethy pointed out. He described the new micro-tape as non-inflammable and resistant to chemical attack, moisture, rot and the effects of weather. As Rovana yarn is subjected to heat and pressure, he explained, it can be compressed or shaped.

"When smooth surfaced fabrics of the new micro-tape are run through embossing rolls, two changes can be observed," Mr. Abernethy said. "First, pressure and heat transfer the embossed design into the fabric. Secondly,

the compressed areas are densified and become deeper in shade, thus producing a two-toned or multi-tone effect."

### Thermoplastic Property

Rovana micro-tape is thermoplastic and because of this quality, Mr. Abernethy said, it lends itself readily to calendering and to molding into three-dimensional shapes. Fabric seams may be joined by thermal, electronic or ultrasonic sealing methods.

Rovana also is compatible with other yarns, he continued. Standard warps of natural and synthetic yarns are said to combine very well with a Rovana filling.

The new micro-tape is offered in a wide range of pigmented or dope-dyed colors in 300, 400 and 550 deniers.

## Cellulose Gel Properties Topic Of TRI Seminar

PRINCETON, N. J.—"Elastic Properties of Swollen Cellulose Gels," will be the topic of discussion at the Textile Research Institute Seminar, to be held on Thursday, March 17, at the Institute's Edward T. Pickard Seminar Room, here.

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## Financial News

### Spartan Reports High In Sales And Net Income

Sales and net income of Spartan Industries, Inc., for the 52 weeks ended December 26, 1959, were at record highs, and exceeded those for any previous fiscal period in the company's 24-year history, according to a report by Charles C. Bassine, chairman of the board.

Sales for the 1959 fiscal year amounted to \$39,124,986, a gain of 30.6 percent over \$29,961,559 in the 52 weeks ended December 27, 1958. Last year's net income amounted to \$2,255,583, equivalent to \$2.26 per share based on 1,000,100 common and Class B shares outstanding.

This is 124.4 percent greater than net income of \$1,005,694 in the 1958 fiscal year, equivalent to \$1.26 per share, based on 800,100 outstanding shares.

### Celanese Corp. Reports 1959 Earnings Dividends

Celanese Corporation of America reported earnings after taxes for 1959 of \$22,648,307, equal to \$2.44 a common share, after providing for preferred dividends. This represented a 36 percent increase over the 1958 earnings of \$16,685,917, equal to \$1.64 a share, the latter being adjusted to reflect a 25 percent stock distribution made last July.

The Celanese 1959 sales totaled \$265,235,584, highest in the Corporation's 42 year history and exceeding by 14 percent the previous sales record of \$232,483,942 established in

1950. The 1959 earnings were at the highest level since 1951.

Of total 1959 sales, chemicals accounted for \$52,299,880 and plastics for \$45,520,314, both achieving record levels, while the year's Celanese fiber sales amounted to \$167,415,390, highest since 1950.

Directors of Celanese Corporation of America have declared a dividend of 25 cents a share on the common stock, payable March 25, 1960, to shareholders of record March 8, 1960.

The Board also voted regular quarterly dividends of \$1.12½ per share on the Preferred Stock, Series A, and \$1.75 per share on the seven percent Second Preferred Stock. Both preferred stock dividends are payable April 1, 1960, to shareholders of record March 8, 1960.

### Munsingwear Reports '59 Activities At New High

(Continued from Page 60)

holders that with its diversification of products, Munsingwear has become the largest single supplier to many of the country's top department and specialty stores.

### Factoring

### C.I.T. Corp. Sets Up Richmond Division Office

RICHMOND, Va. — C.I.T. Corporation has announced plans to open a division office, here, on March 7 to handle increasing demands for financing from business, commerce and industry in Virginia and North Carolina.

(Continued on Page 65)

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## EFFICIENCY DEVICES

262 Greene Ave., Bklyn. 38, N. Y. NEvins 8-6984

## Knitting Principles

### Predictory Stitch Count, Yield And Output Of Patterned Fabric

(Continued from Page 13)

that means that more yarn was drawn — the stitch is too loose. If the roll is underweight, less yarn was drawn — the stitch is too tight.

One more possibility and advantage in using the foregoing formulas is the ability to predict and control the hourly production of different patterns. We have to take in account the factors: 1) revolutions of machine per minute; 2) counter numbers per pound; and 3) machine revolutions per counter number.

The formula would be:

$$(\approx 5) \quad \text{Rpm} \times 60 = \text{Pounds per hour.} \\ \text{R} \times \text{Cn}$$

Where: Rpm = Machine revolutions per minute.

60 = 60 Minutes to 1 hour.

R = Machine revolutions per Counter number.

Cn = Counter numbers per lb.

In applying any theoretical formula we have to bear in mind that many small factors, which are able to change or to distort the structure and reaction, are involved in any knitted fabric. It would be extremely difficult to attempt to measure them. Hard or soft cones, yarn tension, speed of machine, humidity, different yarn color, different yarn twist are a few of these various factors. Leading scientists in knitting research have come to the conclusion that variations of plus or minus two percent are unavoidable and actually harmless to the fabric appearance.

However, the few rules, we are able to establish, can help us improve stability and uniformity and limit variations, if we combine them in every day work with the empirical experience.

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According to Thomas E. Lenihan, president, the new division, at 18 North Fifth Street, office will direct the company's operations in the two-state area formerly supervised by division headquarters in Philadelphia and Atlanta.

Eugene W. Ford has been elected assistant vice president of the firm to head the Richmond division. He has been with the financing company since 1952, working in Virginia under the Philadelphia division.

Assisting Ford as operations head of the local office is P. F. Gouffon, who was transferred here from Jacksonville, Fla. Gouffon joined C.I.T. in 1954 in the Atlanta division. Direct contact in the two states will be maintained by field representatives.

#### Charles Sargent Elected William Iselin President

Charles S. Sargent, Jr., has been elected president and chief executive officer of William Iselin & Company, Inc., it was announced by Arthur O. Dietz, Iselin chairman and president of C.I.T. Financial Corporation.

Mr. Sargent, with the company since 1935, succeeds Morton Goodspeed, who held the position since 1952. Mr. Goodspeed will continue with the company as vice chairman of the board.

Kenneth B. Beatty, vice president and secretary since 1953, assumes Mr. Sargent's previous office as executive vice president. Henry H. Lickel, vice president, was elected secretary. He has been with Iselin since 1926 and was elected a director in 1953.

#### James Talcott Declares Quarterly Stock Dividend

Directors of James Talcott, Inc. have declared a regular quarterly dividend of 40 cents per share on the common stock, payable April 1, 1960, to stockholders of records at the close of business March 15, 1960.

LOS ANGELES, Calif.—Joel Penton has been named vice president of James Talcott Western, Inc., wholly owned subsidiary of James Talcott, Inc., it was announced by Joseph A. Amato, vice president in charge of the

parent firm's Factoring Division.

Mr. Penton will be in charge of James Talcott Western's factoring activities. Through its Los Angeles office, located at 510 South Spring Street (Securities Building), the company will provide a full range of factoring services to manufacturers, jobbers, distributors and dealers in California, Oregon, Washington, Nevada, Utah, Arizona, New Mexico and Hawaii. This will include a complete credit-checking service for factored clients of James Talcott Western, Inc. and of the parent company. Talcott factoring operations in the area had previously been conducted through local representatives.

James Talcott Western, Inc., organized at the end of 1959, now provides industrial time sales financing to West Coast manufacturers, dealers and distributors.

#### Chemical Sales Chosen Distributor For Antara

The Chemical Sales Company, Denver, Colo., has been appointed a distributor for Antara Chemicals, a sales division of General Aniline & Film Corporation, New York City.

The Denver firm will handle the distribution of Antara's line of surfactants, sequestering agents, iodophors, glycols and other products and will provide truck delivery in the metropolitan Denver area.

#### Franklin Process Names Hall To Sales Post

Philadelphia, Pa.—Harold B. Hall has been named to the sales staff of Franklin Process Company, a division of Indian Head Mills, Inc. covering metropolitan Philadelphia, Northern Pennsylvania, New York state, New Jersey, Delaware, and Maryland. Mr. Hall has held a number of posts with the company, the most recent was assistant plant manager in Philadelphia.

#### Handling Tam O'Shanter Line In Midwest Area

MINNEAPOLIS, Minn.—Marvin and Wendell Stromgren have been appointed to handle the Tam O'Shanter line of cotton knits in this area. They will cover Minnesota, North Dakota, South Dakota, Iowa and Nebraska.



### FAWNTEX YARNS INC.

KNITTING YARNS

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ORLON® ACRYLIC — FUR BLENDS — LAMB'S  
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... the finest cotton knitting yarn

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Of course, we think so,  
But more important,  
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**HIGH PILE**  
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now you can make  
**12 YARDS**  
PER HOUR  
with four feeds

It's the new TOMPKINS S-1  
JUNIOR with carding units to  
produce high pile material in  
a variety of sizes, weights and  
sliver content!

Available in two models with cylinder interchangeability from 12" to 28" (S-1 Jr.) and 24" to 38" (S-1 Sr.), this knitter gives you the proven quality and economy of a fully modern Tompkins circular spring needle machine. Model shown has four high pile cards and feeds, each with stop motion control, and triple stop motions in the knitting mechanism. Features a patented, gearless drive and vacuum air cleaner. It will pay you to get full information — write, phone or stop in now...

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623 ONEIDA ST. • SYRACUSE 4, N. Y.

Circular Spring and Latch Needle Knitting Machinery... Since 1846

**Man-Made Fibers  
Predominate At  
British Knit Show**

(Continued from Page 66)

he gave the production figures for man-made fibers in January. These figures showed that 10 percent more man-made fibers were turned out in that month than in January last year, and more than in any other January on record. The growth in production was further emphasized by the fact that the January output was only slightly less than that in December, 1959, which was by far the record month so far. (In December, 1959, output totalled 50.9 million pounds, up 10.7 million pounds in a year. January, 1960, output totalled 50.8 million pounds.)

So big a grip have these three man-made fibers got on the British knitwear market that it was not surprising to see the name of one or other of them on practically every stand in the hall, as well as on their own company stands.

One section of the DuPont stand was devoted to all-white garments, which was explained by the fact that the brilliant white of Orlon is one of its strongest selling points because of its retention of whiteness through countless wearings and washings. In this category was a wide range of infants' garments. Also featured were the many different types of Orlon sweaters in white for both men and women. Jersey slacks made of 70 percent Orlon and 30 percent wool, which are now appearing in the stores, also figured prominently. Another large portion of this stand was given over to a selection of Orlon sweaters in many different colors made from standard three denier yarn, which are now an accepted part of the knitwear scene.

A similar wide display was made by Chemstrand of Acrilan on their own stand and on the stands of many knitwear companies. Outstanding among this company's exhibits were guedetype leisure shirts and vests tailored by Hall & Earl of Leicester in 100 percent Acrilan, which were on show for the first time. Four styles of sweaters and two styles of matching skirts, all in 100 percent Acrilan, were in the famous Match Box range of Mc-

Caul offered in five colors. In each color and design the sweaters and skirts are dyed to give a perfect match. Other Acrilan knitwear included full-fashioned sweaters for both men and women from Two Steeples. The modern "shaggy" look is exemplified by dresses in 100 percent Acrilan furry fleece fabric in slim sheath models in white and pastel shades by Holland Dress Co. and J. M. Allen.

British Nylon Spinners followed up the success of the Nylon Fair by demonstrating the extraordinarily wide range of textures and effects which can now be achieved with bulked nylon yarns. The many new looks in nylon knitwear can be divided into two main groups; the silk look and the chunky look. Garments shown on the BNS stand illustrated both of these. The luxurious look of heavy silk has been beautifully achieved by Mario Traverso, of Milan, Italy, using British Agilon D yarn in a high fashion black sweater and a classic white tailored suit. To illustrate different possibilities, a fine gauge dressmaker style sweater, again in white, has been made by Allen Solly and a heavy gauge white sweater by Kendell, of Milan. A fully fashioned evening sweater in turquoise Agilon D was shown by Lyle and Scott. Bri-Lon knitwear for children had its own showing, with a scarlet jumper and cardigan from Bambi and mesh "Gadabout" tights from I. & R. Morley.

The exhibition was opened by Viscountess Lewisham, a famous figure on the British scene for saying deep home-truths in a light-hearted fashion. In her speech, Lady Lewisham said: "Looking round me, I am delighted to see so much fabulous knitwear that is pale and fluffy, soft and clinging. For I am sick of weirdies whose dirty hair droops over shapeless woollen pullovers which reach their knees, and debutants looking like angry young men. Anyone who thinks such styles attractive must be mad, when they have the choice of the enchanting colors and designs displayed in this exhibition. No wonder sales last year in Britain totaled over \$530 million. No wonder exports last year were \$53 million!"

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Excellent condition.

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6 Grosser Links hand machines, 6 cut.  
Perfect condition.

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8 Links and Links, 6 cut, full automatic. Sizes  
44-48. In running condition. Sacrifice.

BOX 100A

## FOR SALE

- (1) Philip interlock machine, 33", 32 feed, 17 cut
- (1) Philip interlock machine, 30", 30 feed, 14½ cut
- (1) Philip interlock machine, 30", 30 feed, 14 cut
- (2) Jacquard, TAI machines, 30", 12 feed, 13½ cut
- (1) Jacquard, TAI machine, 30", 12 feed, 13 cut
- (6) American safety tables, with motor
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- (2) 16 point P loopers, with tables

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## BEST BUYS

- 3—Phila. Jacq. LH, 30", 6 cut, 6 feed, 3 col. str.
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- 3—Phila. Jacq. TA, 30", 12 feed, 10 to 14 cut, late style
- 8—Phila. Jacq. TA, 11" to 20", 4 feed, 6 to 12 cut
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- 1—Dubied, 5 cut, 44", fully automatic, 4 bar
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1—20", 20 cut, 50 gauge Brinton Jersey machine, 1248 needles, 48 feed. Little used.

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30" interlock Mellor-Bromley, 24 cut, 30 feed, Wesco Stop-motion, individual drive, dogless. 14 pounds per hour 38/ICP. All spare parts available in U.S.A. In A-I running condition. Can be seen in operation.

**BOX 110L**

**FOR LEASE OR SALE**

Large full fashioned knitting mill. Superior equipment. New building.

**BOX 110K**

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BRUSHING MACHINE**

In perfect running condition. Complete with motor.

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Complete coarse gauge knitting mill consisting of 4 cut Universals.

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YARN CO.**

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**WE BUY & SELL  
WORSTED—ZEPHYR  
ORLON ACRYLIC  
Nylon-Cotton-Angora  
COTTON—ANGORA  
YARNS**

Any Size — Any Grade

**YARNS FOR SALE AT ATTRACTIVE PRICES**

800 lbs.—2/26, char. brown, Turbo Orlon Acrylic, cones  
1050 lbs.—2/26, tan, Turbo Orlon Acrylic, cones  
1900 lbs.—3 run, old gold, 100% lamb's wool, cones  
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1700 lbs.—2 1/4 run, baby pink, garnetted Orlon Acrylic, cones  
800 lbs.—3 run, 75% lamb's wool, 25% Orlon Acrylic, lt. green heather, cones  
1500 lbs.—3 run, 75% lamb's wool, 25% Orlon Acrylic, lovat brown, cones  
1500 lbs.—2 1/4 run, med. oxford, 75% lamb's wool, 25% Orlon Acrylic, cones  
900 lbs.—2 run, olive green, 75% lamb's wool, 25% Orlon Acrylic, cones  
2000 lbs.—1/15 1/4, lovat tan, Turbo Orlon Acrylic, cones  
1700 lbs.—2/30, char. brown, Turbo Orlon Acrylic, cones  
1500 lbs.—2/27, lt. and med. oxford, Orlon Acrylic, cones  
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900 lbs.—1/23, lt. oxford and oatmeal, Orlon Acrylic, cones  
500 lbs.—1/13, natural H.B. Turbo Orlon Acrylic, cones  
750 lbs.—1/24, lt. oxford, Orlon Acrylic, H.B. cones  
500 lbs.—1/24, pink, H.B. Orlon Acrylic, cones  
1000 lbs.—1/24, lt. oxford, H.B. Orlon, Acrylic, cones

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ELASTIC YARN FOR KNITTING**

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**ALL TYPES OF YARNS BOUGHT & SOLD**

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First Grade Dacron Polyester stretch, Natural, on cones — Top producer

2700 lbs.—5/70

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on 7-11 cut flat machines.

Large production — good delivery.

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on 5, 7 and 10 cut hand machines. Sweaters or trimmings. Excellent workmanship.

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on Links and Links, 6 and 7 cut flat machines and 6 and 7 cut Links and Links circular Jacquard machines. Contact:

MURRAY HILL 4-0498 or BOX 112

**CONTRACTOR SEEKS WORK**

on 5 gauge Jacquard machines, 4 gauge bulkies, striped sweaters, brushed or unbrushed.

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on 8 gauge LH Links. Also 6 and 7 gauge flat Links. Ladies' and men's complete garments. Quality workmanship.

**BOX 107**



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on fine gauge interlocks.  
Classics and novelties.  
Excellent workmanship.  
**BOX 119**

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on interlock, Ban-Lon, napping and shearing Orlon  
Acrylic, jersey and 4 cut Universal. Ladies' sweaters.  
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**QUALITY CONTROL MAN WANTED**

for large progressive South Carolina knitting mill  
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Leading Canadian mill in Montreal has opening for top designer. The  
person we are looking for must be fashion conscious, have knowledge  
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Must be thoroughly experienced, to take com-  
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Wonderful opportunity for the right party.  
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We are offering a HIGH SALARY for  
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Must be experienced on flat Links and  
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**WANTED**

Production man to take charge of cutting, sewing,  
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Experienced on circular Jacquard LH machines. Ex-  
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Experienced ladies' and misses' sweaters. Com-  
plete contact with contractors, from yarn to  
finished product. Also full yarn control.  
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Knowledge of knitwear and yarn control. Seeks  
position in inventory and quality control. Young,  
married, energetic, excellent administrator.  
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5 sections of steel shelving—in good condi-  
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produced by modern fine gauge knitting mill.  
Long established — excellent workmanship.  
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by West Coast knitting mill producing  
medium priced bulky and fine cut quality  
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Interested in spinner of High Bulk or  
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Complete machine set-up information on Raschel allover and strip laces, and Tricot Fabrics. Chains, threading, beams, bar nesting, ends req'd, etc. Quick and reliable service.

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## CLOSE-OUTS WANTED

CASH PAID for surplus stocks of Sweaters and Bathing Suits.

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We pay cash for closeouts. Stripes, fancies, solids, underwear materials, etc. Full pieces and remnants. Also interested in woven fabrics.

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*moved to new and larger quarters*

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SWIM TRUNKS  
SWEATERS  
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WANTED FOR CASH  
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## BUSINESS OPPORTUNITIES

## MERGE OR PARTNER

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BOX 111

## PARTNERSHIP WANTED

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BOX 110M

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established business in fabric, trimmings or accessory, chemical or swimwear/knitwear supply field. Submit full details on 5 year sales, earnings, growth prospects — in confidence. Will also consider tax loss corporation.

BOX 110B

## TRADE WANTS

RATES: one insertion—35 cents per word. Words set completely in capitals — 40 cents per word. Box numbers count as two words. Minimum cost of advertisement—\$5.50. Minimum cost of Positions Wanted advertisements — \$5.00. Trade Wants for Monday's paper must be in by preceding Wednesday, 2 P.M. Please enclose payment with your order.

Wanted — 5 gauge Dubied or Supreme needle beds. Millard Knitting Mills, 39 Cornelison Avenue, Jersey City 4, N. J.

CONTRACTOR SEEKS WORK. FINISHING ONLY ON ALL KINDS OF SWEATERS. EXCELLENT WORKMANSHIP. BOX 115.

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Bulky production available on 4 cut Universal and 5 cut TJI machines. Brushed goods and fine gauge. Box 110A.

Knitter-Mechanic for Jacquard LH machines. Also other circular machines. Excellent opportunity, salary. Pottsville Mills, Inc., Pottsville, Pa.

Knitter Mechanic available. Experienced on LH machines. Box 110C.

Contractor wanted on 5, 6, 7 gauge circular Links machine. Quality workmanship. Box 110F.

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